SHARP SERVICE MANUAL

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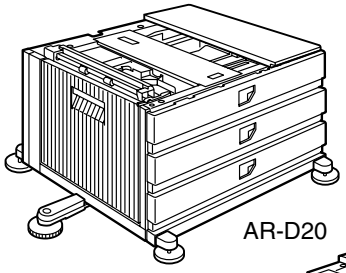
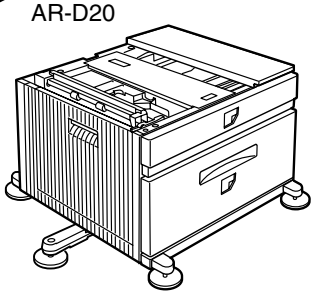
AR-D15



AR-D20



LASER PRINTER OPTIONS
PAPER FEED UNIT
WITH POWER SUPPLY UNIT

MODEL AR-D15 AR-D20

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■ PARTS GUIDE

[1] INTRODUCTION

This model is provided with the power unit, AR-DC1, as a standard unit together with the 3-stage paper feed desk, AR-D14, or the large capacity paper feed desk, AR-D13, for the AR-350/450 series, improving serviceability when installing.
This Service Manual, therefore, describes only the different points from the AR-D14/AR-D13.
For the items which are not described in this manual, refer to the AR-D14/AR-D13 Service Manual and Parts Guide.

Parts marked with "⚠" are important for maintaining the safety of the set.
Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

[2] SPECIFICATIONS

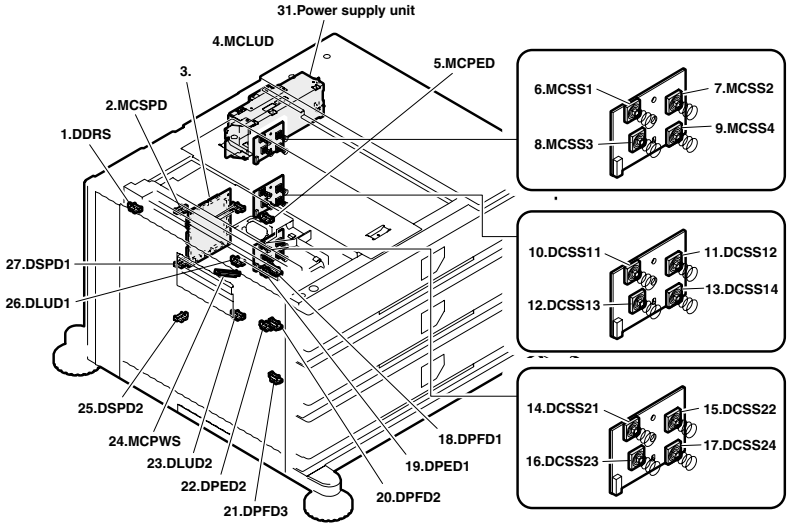
1. AR-D15

		AR-D14	AR-D15	Remark
Type		Stand /3x500 Sheet Paper Drawer (2 paper trays + 1 multi purpose drawer)		
Transport speed		To support 28-45 sheet/minute		
Transport alignment		Center alignment		
Paper size	1 Tray	A3, B4, A4, A4R, B5, B5R, A5R 11"x17", 8.5"x14", 8.5"x13", 8.5"x11", 8.5"x11"R, 5.5"x8.5"R Executive, Japanese p/c,Monarch(envelope) Com-10(envelope), DL(envelope), C5(envelope), ISO B5(envelope)		
	2 or 3 Tray	A3, B4, A4, A4R, B5, B5R 11"x17", 8.5"x14", 8.5"x13", 8.5"x11", 8.5"x11"R, 7.25"x10.5"R		
How to change the paper size		Guide adjustment by user / Software setting by user		
Factory default paper size setting		To be set to maximum paper guide width at factory default status (for both trays)		
Media available for paper feeding	1 Tray	Plain paper : 60-128g/m² / 16-34lbs Index paper : 176g/m² / 47lbs Cover paper : 200-205g/m² / 54-55lbs Envelope : 75-90g/m², 20-24lbs Transparency film * Media heavier than 105g/m² should be A4/8.5x11" or smaller. Media heavier than 128g/m² should be fed from shorter edge. * Only single paper feed is enabled for overlay copy or copy on back-side of printed paper.		
	2 or 3 Tray	Plain 60-105g/m² / 16-28lbs		
Paper capacity	1 Tray	Standard : 500sheets(80g/m²) Post card : 40sheets Envelope : 40sheets Transparency film : 40sheets		
	2 or 3 Tray	Standard paper : 500sheets X 2(64g/m²)		
Paper type	1 Tray	Plain, recycled, pre-printed, pre-punched, color, letter head, labels, heavy, transparency, Japanese p/c, envelope (User can set bi-type for each of the above paper type.)		
	2 or 3 Tray	Plain, recycled, pre-printed, pre-punched, color, letter head (User can set bi-type for each of the above paper type.)		
Sizes to be detected	1 Tray	AutomaticAuto-AB: A3, B4, A4, A4R, B5, B5R, 8.5"x13", A5R		
		AutomaticAuto-Inch: 11"x17", 8.5"x14", 8.5"x11", 8.5"x11"R, 7.25"x10.5"R, 5.5" x 8.5R		
		Manual (input detection): postal card, Monarch(envelope), Com-10(envelope), DL(envelope), C5(envelope), ISO B5(envelope)		
		Ignore detection selectable:		
	2 or 3 Tray	Automatic detection-AB (200V system):A3, B4, A4, A4R, B5, B5R, 8.5"x13"		
		Automatic detection-inch (100V system): 11"x17", 8.5"x14", 8.5"x13", 8.5"x11", 8.5"x11"R, 7.25"x10.5"R		
Paper balance detection		Provided (paper empty and 3 steps)		
Paper loading system		To be loaded from the upper side with front loading system		
Tray ascent/descent time	Ascent	Within 7 seconds		
		At paper empty, required time from tray insert to the empty detection		
	Descent	Own weight descent		
Power consumption		32.2W or lower		
Power supply unit		Requires the option power unit, AR-DC1.	Standard provision	
External dimensions(W x D x H)		619 x 664 x 404 (mm)		
Occupied dimensions(W x D)		745 x 664 (mm)		
Weight		Approx. 32kg	Approx. 32.9kg	

2. AR-D20

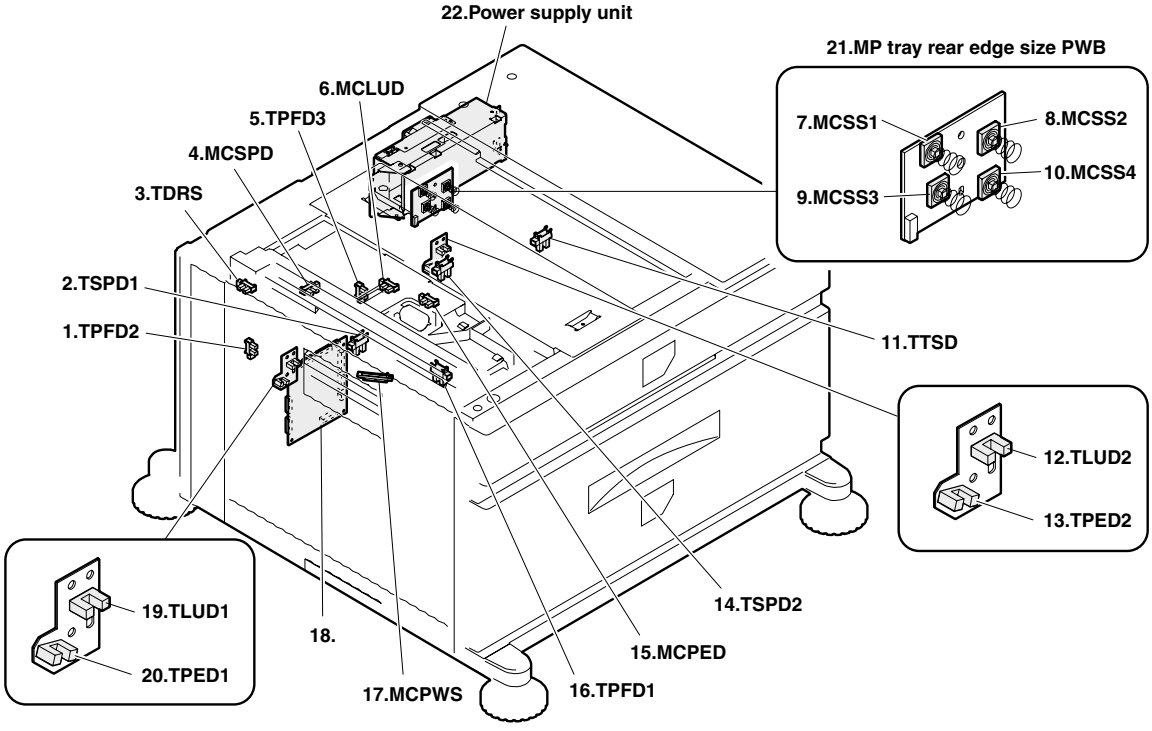
		AR-D13	AR-D20	Remarks
Type		Stand MPD&2000 Sheet Paper Drawer (large capacity tray + multi purpose drawer)		
Transport speed		To support 28-45 sheet/minute		
Transport alignment		Center alignment		
Paper size	1 Tray	A3, B4, A4, A4R, B5, B5R, A5R 11"x17", 8.5"x14", 8.5"x13", 8.5"x11", 8.5"x11"R, 5.5"x8.5"R Executive, Japanese p/c, Monarch(envelope) Com-10(envelope), DL(envelope), C5(envelope), ISO B5(envelope)		
	2 Tray	A4, 8.5"x11"		
How to change the paper size		Guide adjustment by user / Software setting by user		
Factory default paper size setting	1 Tray	8.5"x11"		
	2 Tray	The size guide plate is packed together.		
Media available for paper feeding	1 Tray	Plain paper : 60-128g/m² / 16-34lbs Index paper : 176g/m² / 47lbs Cover paper : 200-205g/m² / 54-55lbs Envelope : 75-90g/m², 20-24lbs Transparency film * Media heavier than 105g/m² should be A4/8.5x11" or smaller. Media heavier than 128g/m² should be fed from shorter edge. * Only single paper feed is enabled for overlay copy or copy on back-side of printed paper.		
	2 Tray	Plain 60-105g/m² / 16-28lbs		
Paper capacity	1 Tray	Standard : 500sheets(80g/m²) Post card : 40sheets Envelope : 40sheets Transparency film : 40sheets		
	2 Tray	880+1,320sheets(64g/m²) / 800+1,200sheets(80g/m²)		
Paper type	1 Tray	Plain, recycled, pre-printed, pre-punched, color, letter head, labels, heavy, transparency, Japanese p/c, envelope (User can set bi-type for each of the above paper type.)		
	2 Tray	Plain, recycled, pre-printed, pre-punched, color, letter head (User can set bi-type for each of the above paper type.)		
Sizes to be detected	1 Tray	AutomaticAuto-AB : A3, B4, A4, A4R, B5, B5R, 8.5"x13", A5R		
		AutomaticAuto-Inch : 11"x17", 8.5"x14", 8.5"x11", 8.5"x11"R, 7.25"x10.5"R, 5.5" x 8.5R		
		Manual (input detection): postal card, Monarch(envelope), Com-10(envelope), DL(envelope), C5(envelope), ISO B5(envelope)		
		Ignore detection selectable:		
	2 Tray	Size setting by the serviceman		
Paper balance detection	1 Tray	Provided (paper empty and 3 steps)		
	2 Tray	Enable (Paper empty and 6 steps (3 steps + 3 steps))		
Paper loading system		To be loaded from the upper side with front loading system		
Tray ascent/descent time	Ascent	Within 12 seconds		
		At paper empty, required time from tray insert to the empty detection		
	Descent	Own weight descent		
Power consumption		32.2W or lower		
Power supply unit		Requires the option power unit, AR-DC1.	Standard provision	
External dimensions(W x D x H)		619 x 664 x 404 (mm)		
Occupied dimensions(W x D)		745 x 664 (mm)		
Weight		Approx. 34kg	Approx. 34.5kg	

[3] EXTERNAL VIEWS AND INTERNAL STRUCTURES
1. AR-D15



	Code	Name	Function	Active condition	Remark
1	DDRS	Side door open/close sensor	Side door open/close detection	H : Door closed	
2	MCSPD	MP tray remaining paper quantity sensor	MP tray remaining paper quantity detection		
3	Control PWB	Control PWB	Communication with the machine, machine operation control		
4	MCLUD	MP tray upper limit sensor	MP tray upper limit detection	H : Upper limit detected	
5	MCPED	MP tray paper empty sensor	MP tray paper empty detection	L : Paper loaded	
6	MDSS1	MP tray rear edge sensor 1	MP tray rear edge size detection	L : When pressed	In MP tray rear edge size PWB
7	MCSS2	MP tray rear edge sensor 2	MP tray rear edge size detection	L : When pressed	In MP tray rear edge size PWB
8	MCSS3	MP tray rear edge sensor 3	MP tray rear edge size detection	L : When pressed	In MP tray rear edge size PWB
9	MCSS4	MP tray rear edge sensor 4	MP tray rear edge size detection	L : When pressed	In MP tray rear edge size PWB
10	DCSS11	No. 3 tray rear edge sensor 1	No. 3 tray rear edge size detection	L : When pressed	In No. 3 tray rear edge size PWB
11	DCSS12	No. 3 tray rear edge sensor 2	No. 3 tray rear edge size detection	L : When pressed	In No. 3 tray rear edge size PWB
12	DCSS13	No. 3 tray rear edge sensor 3	No. 3 tray rear edge size detection	L : When pressed	In No. 3 tray rear edge size PWB
13	DCSS14	No. 3 tray rear edge sensor 4	No. 3 tray rear edge size detection	L : When pressed	In No. 3 tray rear edge size PWB
14	DCSS21	No. 4 tray rear edge sensor 1	No. 4 tray rear edge size detection	L : When pressed	In No. 4 tray rear edge size PWB
15	DCSS22	No. 4 tray rear edge sensor 2	No. 4 tray rear edge size detection	L : When pressed	In No. 4 tray rear edge size PWB
16	DCSS23	No. 4 tray rear edge sensor 3	No. 4 tray rear edge size detection	L : When pressed	In No. 4 tray rear edge size PWB
17	DCSS24	No. 4 tray rear edge sensor 4	No. 4 tray rear edge size detection	L : When pressed	In No. 4 tray rear edge size PWB
18	DPFD1	Desk paper transport sensor 1	Desk paper transport detection	L : Paper detected	
19	DPED1	N. 3 tray paper empty sensor	N. 3 tray paper empty detection	L : Paper loaded	
20	DPFD2	Desk paper transport sensor 2	Desk paper transport detection	L : Paper detected	
21	DPFD3	Desk paper transport sensor 3	Desk paper transport detection	L : Paper detected	
22	DPED2	No. 4 tray paper empty sensor	No. 4 tray paper empty detection	L : Paper loaded	
23	DLUD2	No. 4 tray upper limit sensor	No. 4 tray upper limit detection	H : Upper limit detected	
24	MCPWS	MP tray width sensor	MP tray paper width detection	Analog voltage	Slide volume
25	DSPD2	No. 4 tray remaining paper quantity sensor	No. 4 tray remaining paper quantity detection		
26	DLUD1	No. 3 tray upper limit sensor	No. 3 tray upper limit detection	H : Upper limit detected	
27	DSPD1	No. 3 tray remaining paper quantity sensor	No. 3 tray remaining paper quantity detection		
28	MP tray rear edge size PWB	MP tray rear edge size PWB	MP tray rear edge size detection		
29	No. 3 tray rear edge size PWB	No. 3 tray rear edge size PWB	No. 3 tray rear edge size detection		
30	No. 4 tray rear edge size PWB	No. 4 tray rear edge size PWB	No. 4 tray rear edge size detection		
31	Power supply unit	Power supply unit	Supplies power to the desk and finisher series options.		Equivalent to the AR-DC1.

2. AR-D20



	Code	Name	Function	Active condition	Remark
1	TPFD2	Tandem tray paper transport sensor 2	Tandem tray paper transport detection	L : Paper detected	
2	TSPD1	Tandem 1 tray remaining paper quantity sensor	Tandem 1 tray remaining paper quantity detection		
3	TDRS	Side door open/close sensor	Side door open/close detection	H : Door closed	
4	MCSPD	MP tray remaining paper quantity sensor	MP tray remaining paper quantity detection		
5	TPFD3	Tandem tray paper transport sensor 3	Tandem tray paper transport detection	L : Paper detected	
6	MCLUD	MP tray upper limit sensor	MP tray upper limit detection	H : Upper limit detected	
7	MCSS1	MP tray rear edge sensor 1	MP tray rear edge size detection	L : When pressed	In MP tray rear edge size PWB
8	MCSS2	MP tray rear edge sensor 2	MP tray rear edge size detection	L : When pressed	In MP tray rear edge size PWB
9	MCSS3	MP tray rear edge sensor 3	MP tray rear edge size detection	L : When pressed	In MP tray rear edge size PWB
10	MCSS4	MP tray rear edge sensor 4	MP tray rear edge size detection	L : When pressed	In MP tray rear edge size PWB
11	TTSD	Tandem tray open/close sensor	Tandem tray open/close detection	H : Tray closed	
12	TLLD2	Tandem 2 tray upper limit sensor	Tandem tray 2 upper limit detection	L : Upper limit detected	
13	TPED2	Tandem 2 tray paper empty sensor	Tandem tray 2 paper empty detection	H : Paper loaded	
14	TSPD2	Tandem 2 tray remaining paper quantity sensor	Tandem 2 tray remaining paper quantity detection		
15	MCPED	MP tray paper empty sensor	MP tray paper empty detection	L : Paper loaded	
16	TPFD1	Tandem tray paper transport sensor 1	Tandem tray paper transport detection	L : Paper detected	
17	MCPWS	MP tray width sensor	MP tray paper width detection		Slide volume
18	Control PWB	Control PWB	Communication with the machine, machine operation control		
19	TLLD1	Tandem 1 tray upper limit sensor	Tandem tray 1 upper limit detection	L : Upper limit detected	
20	TPED1	Tandem 1 tray paper empty sensor	Tandem tray 1 paper empty detection	H : Paper loaded	
21	MP tray rear edge size PWB	MP tray rear edge size PWB	Multi-purpose tray rear edge size detection		
22	Power supply unit	Power supply unit	Supplies power to the desk and finisher series options.		Equivalent to the AR-DC1.

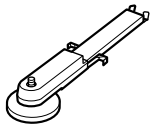
[4] UNPACKING AND INSTALLATION

1. AR-D15

<Before installation>

•Start installation after checking that the DATA and COMMUNICATION indicators on the operation panel are neither lit nor blinking.
•For installation, a power supply unit (AR-DC1) is needed.

<Parts included>


Left adjuster: 1 pc.

Front mounting plates: 2 pcs.

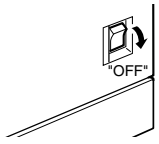
Rear mounting plates: 2 pcs.

Screws (M4x8): 4 pcs.

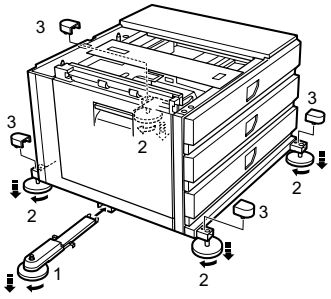
Adjuster covers: 4 pcs.

Screw A (M4x8 / with SW): 1 pc.

1) Turn off the main switch of the main unit of the printer.
Turn the main switch located on the front side of the printer to the "OFF" position.
Then remove the power plug from the outlet.

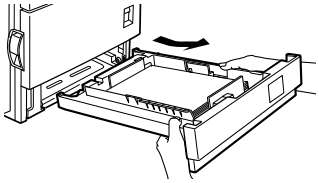


2) Attach the adjusters and adjust them.
<1>Insert the left adjusters to the stand/paper drawer.
<2>Turn the five adjusters to lower them until they touch the floor.
<3>Attach the each adjuster covers.

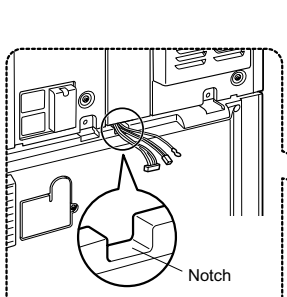


* Be sure to attach the left adjuster to prevent overturning.
Caution: The lower tray cannot be pulled out unless the adjuster is lowered to the specified position.

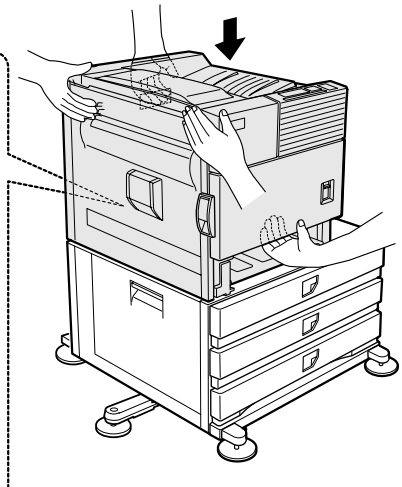
3) Put the main unit of the printer on the stand/paper drawer.
<1>Pull out the paper tray of the main unit until it stops and then remove it by lifting both ends of the tray.



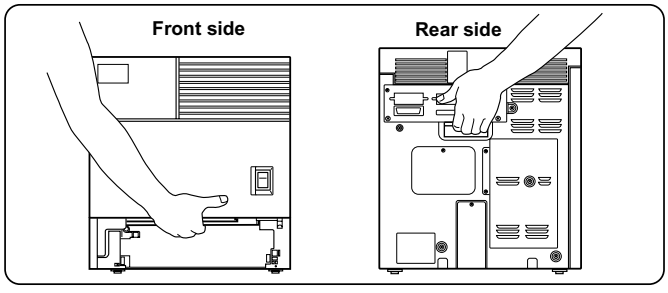
<2>Hold the main unit of the printer at the positions shown in the illustration and put the main unit on the stand/paper drawer so that the front side and the left side of the main unit are aligned to those of the stand/paper drawer.



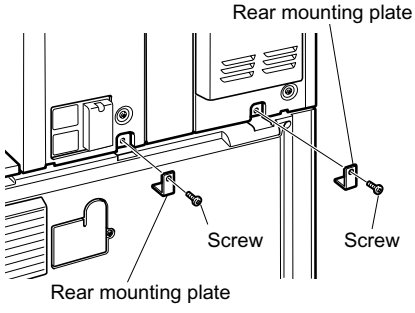
[Note]
When placing the printer on the AR-D15, be sure to place the harness bundle in the notch in the desk rear cabinet in order not to pinch the power harness.

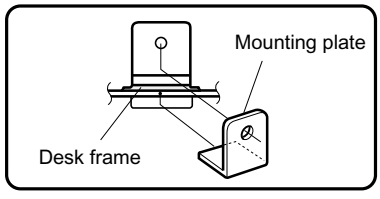


Caution: For installation of the main unit, it must be held by two persons and installed without haste.



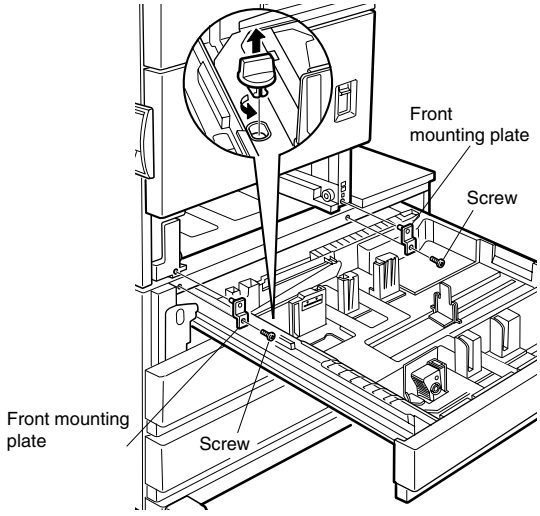
4) Connect the main unit to the stand/paper drawer.
<1>Attach the rear mounting plates using a supplied screw for each.



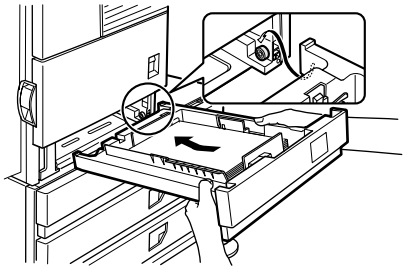


Caution: Insert the rear mounting plates under the desk frame.

<2>Pull out the upper paper tray of the stand/paper drawer until it stops and attach the front mounting plates using a supplied screw for each. Then, remove the lock of the paper tray and close the tray.
Remove the locks of the middle tray and the lower tray similarly.

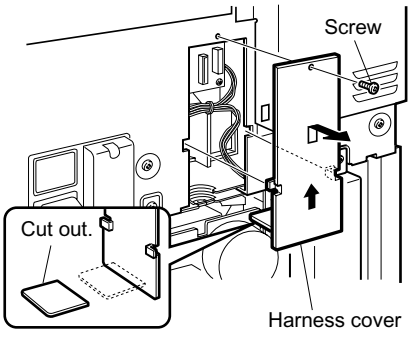


<3>Reattach the paper tray of the main unit.

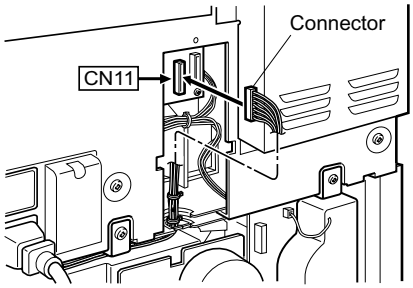


5) Connect the power supply unit harness to the PCU PWB of the main unit of the printer.

<1>Remove the screw that fixes the harness cover of the main unit of the printer and slide the harness cover up to remove it.
Process the harness cover as shown in the illustration.

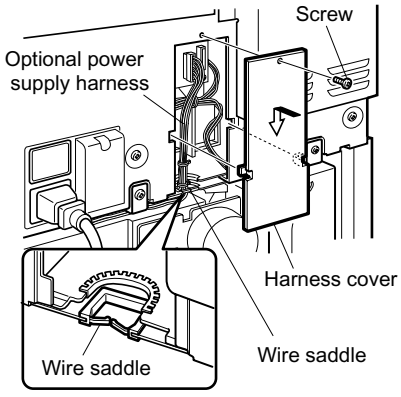


<2>Connect the optional power supply harness connector to CN11 (red connector) of the PCU PWB of the main unit of the printer.

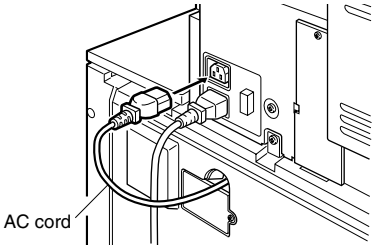


6) Reattach the harness cover to its original position and fix it with the removed screw.
At this time, ensure that the optional power supply unit harness is arranged as shown in the illustration.

•Fix the harness securely to the wire saddle.



7) Connect the AC cord of the power supply unit to the main unit of the printer.
Connect the AC cord of the power supply unit to the outlet connector of the main unit of the printer at the location shown in the illustration.

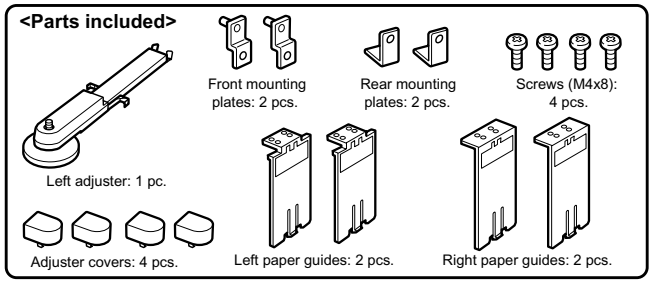


* If another peripheral device must be installed, carry out the following step at the end of the installation work.

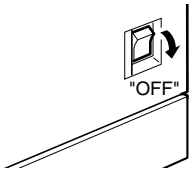
2. AR-D20

<Before installation>

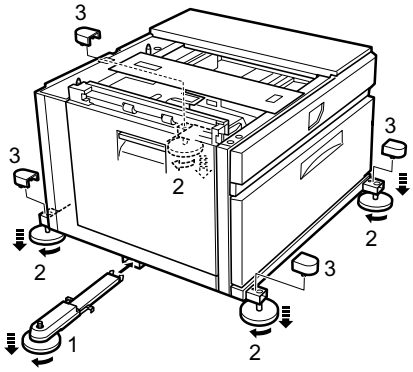
•Start installation after checking that the DATA and COMMUNICATION indicators on the operation panel are neither lit nor blinking.
•For installation, a power supply unit (AR-DC1) is needed.


<Parts included>
Front mounting plates: 2 pcs.
Rear mounting plates: 2 pcs.
Screws (M4x8): 4 pcs.
Left adjuster: 1 pc.
Adjuster covers: 4 pcs.
Left paper guides: 2 pcs.
Right paper guides: 2 pcs.

1) Turn off the main switch of the main unit of the printer.
Turn the main switch located on the front side of the printer to the "OFF" position.
Then remove the power plug from the outlet.

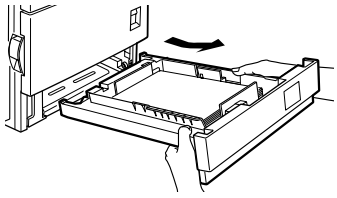


2) Attach the adjusters and adjust them.
<1>Insert the left adjusters to the stand/paper drawer.
<2>Turn the each adjusters to lower them until they touch the floor.
<3>Attach the four adjuster covers.

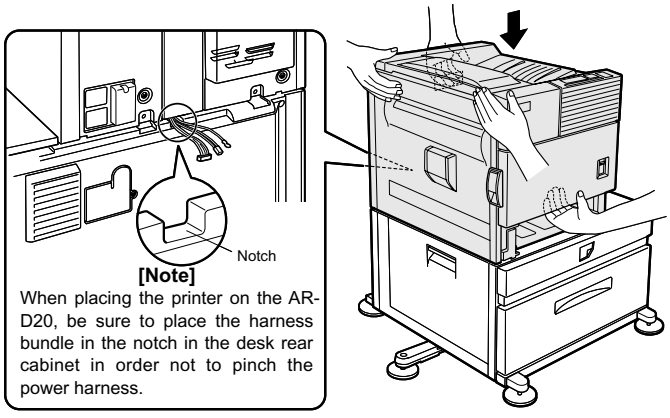


* Be sure to attach the left adjuster to prevent overturning.
Caution: The lower tray cannot be pulled out unless the adjuster is lowered to the specified position.

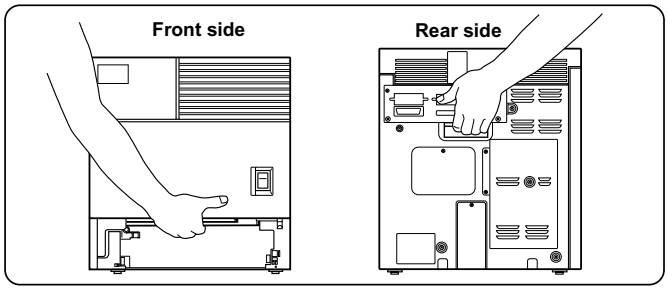
3) Put the main unit of the printer on the stand/paper drawer.
<1>Pull out the paper tray of the main unit until it stops and then remove it by lifting both ends of the tray.



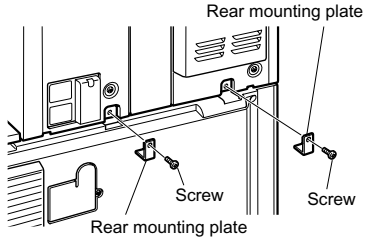
<2>Hold the main unit of the printer at the positions shown in the illustration and put the main unit on the stand/paper drawer so that the front side and the left side of the main unit are aligned to those of the stand/paper drawer.

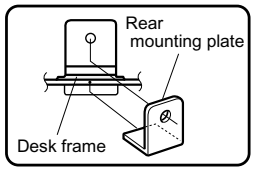


Caution: For installation of the main unit, it must be held by two persons and installed without haste.



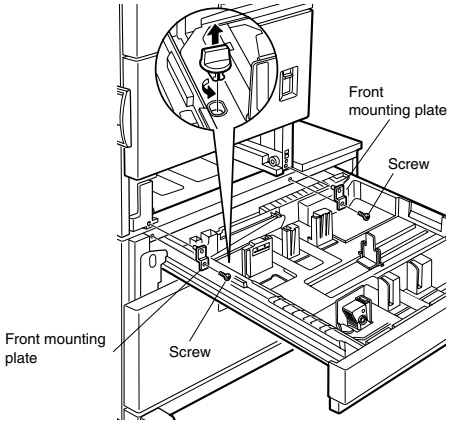
4) Connect the main unit to the stand/paper drawer.
<1>Attach the rear mounting plates using a supplied screw for each.



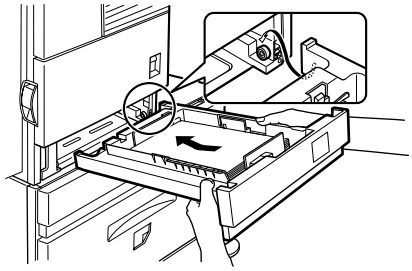


Caution: Insert the rear mounting plates under the desk frame.

<2>Pull out the upper paper tray of the stand/paper drawer until it stops and attach the front mounting plates using a supplied screw for each. Then, remove the lock of the paper tray and close the tray.

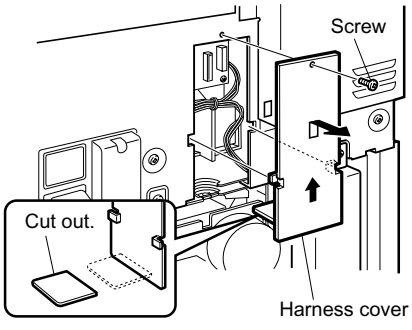


<3>Reattach the paper tray of the main unit.

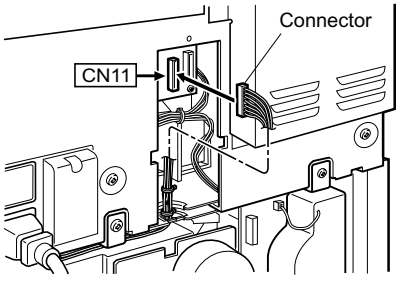


5) Connect the power supply unit harness to the PCU PWB of the main unit of the printer.

<1>Remove the screw that fixes the harness cover of the main unit of the printer and slide the harness cover up to remove it.
Process the harness cover as shown in the illustration.

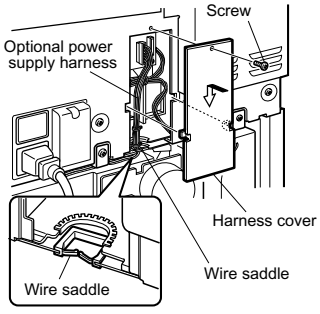


<2>Connect the optional power supply harness connector to CN11 (red connector) of the PCU PWB of the main unit of the printer.

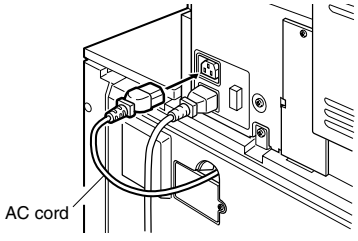


<3>Reattach the harness cover to its original position and fix it with the removed screw.
At this time, ensure that the optional power supply harness are arranged as shown in the illustration.

•Fix the harness securely to the wire saddle.

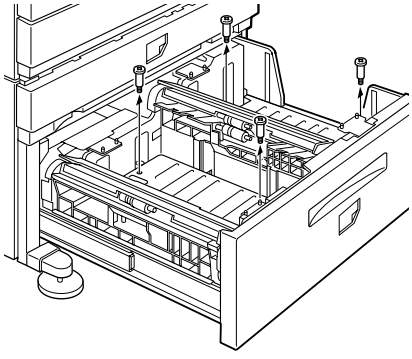


6) Connect the AC cord of the power supply unit to the main unit of the printer.
Connect the AC cord of the power supply unit to the outlet connector of the main unit of the printer at the location shown in the illustration.



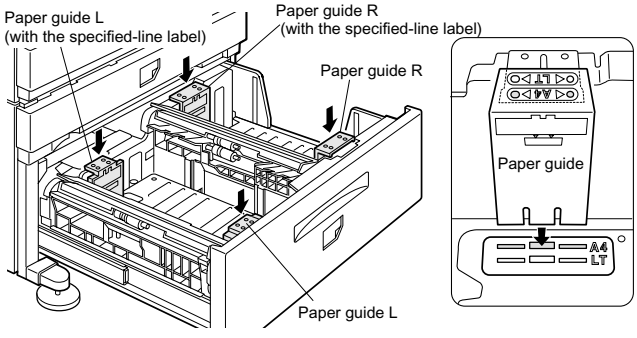
7) Install the paper guide to the lower tray (large capacity tray).

<1>Remove the four fixing screws for transit.
(Refer to the figure on the below.)



<2>Insert the paper guides L and the paper guides R into the guide holes in the tray to set the desired paper size. In this case, insert the paper guide L (with the specified-line label) and the paper guide R (with the specified-line label) into positions on the inner side. (Refer to the figure below.)

(For AB series, set to A4. For inch series, set to LT.)

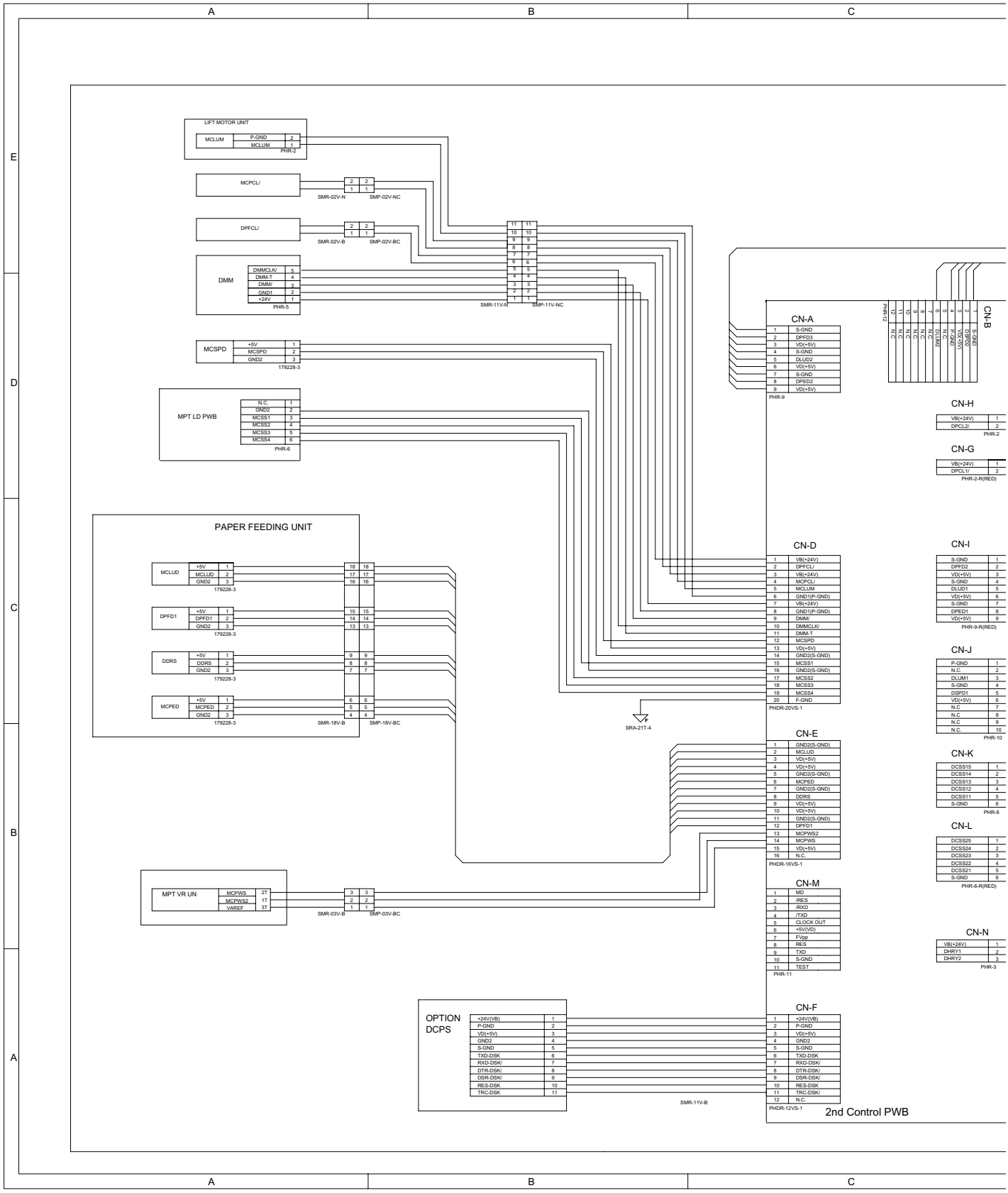


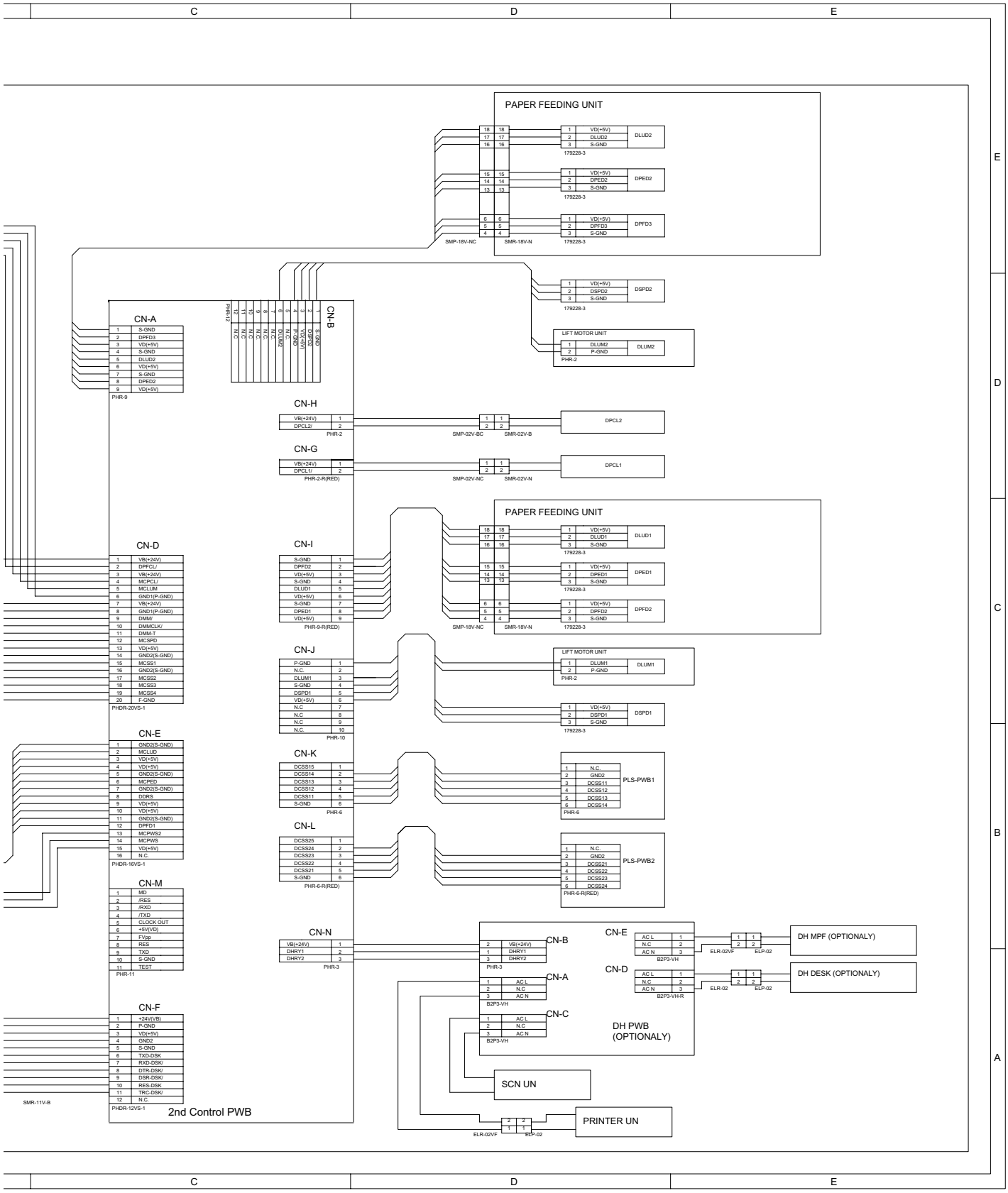
* If another peripheral device must be installed, carry out the following step at the end of the installation work.

[5] ELECTRICAL SECTION

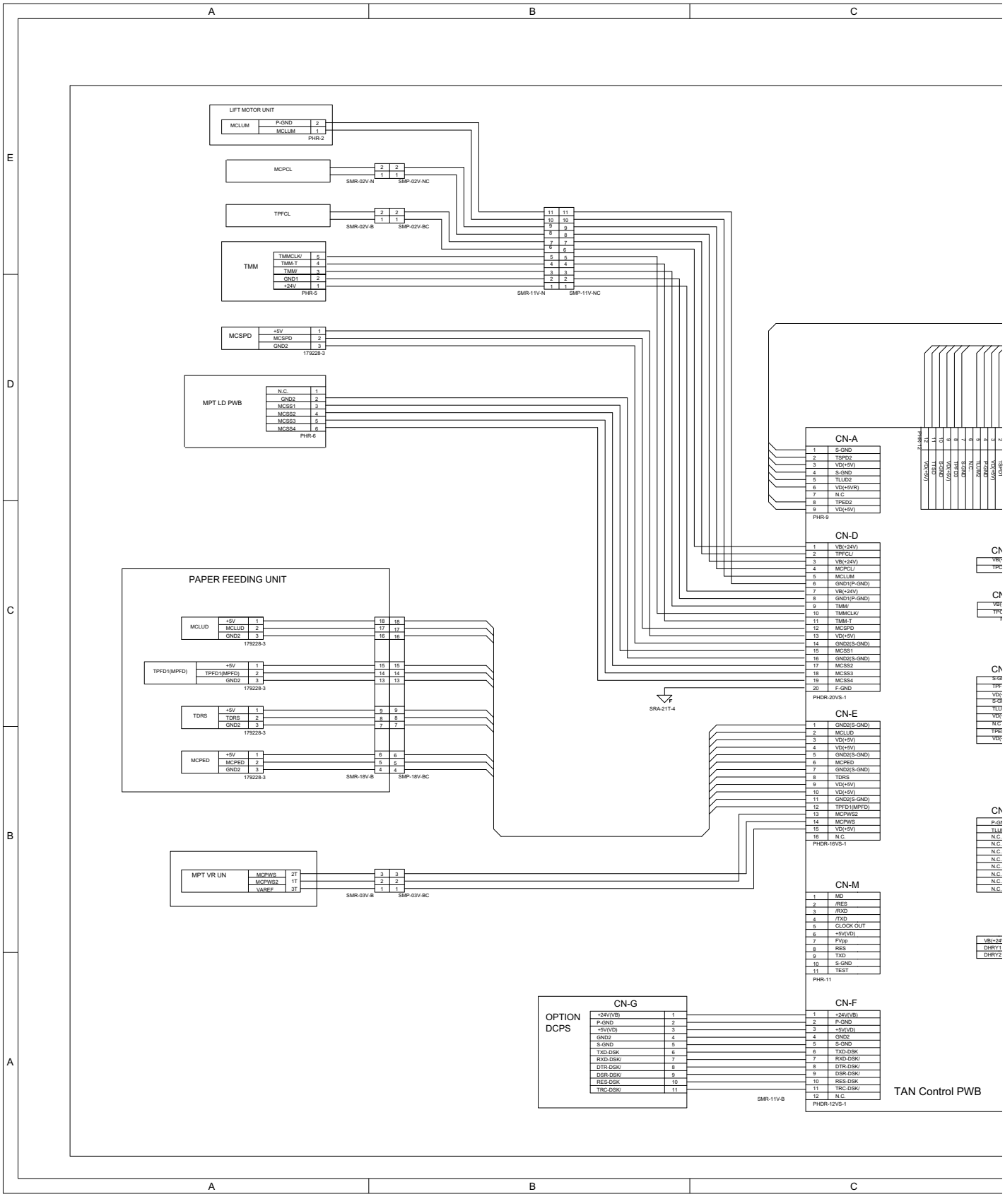
1. Actual Wiring Chart

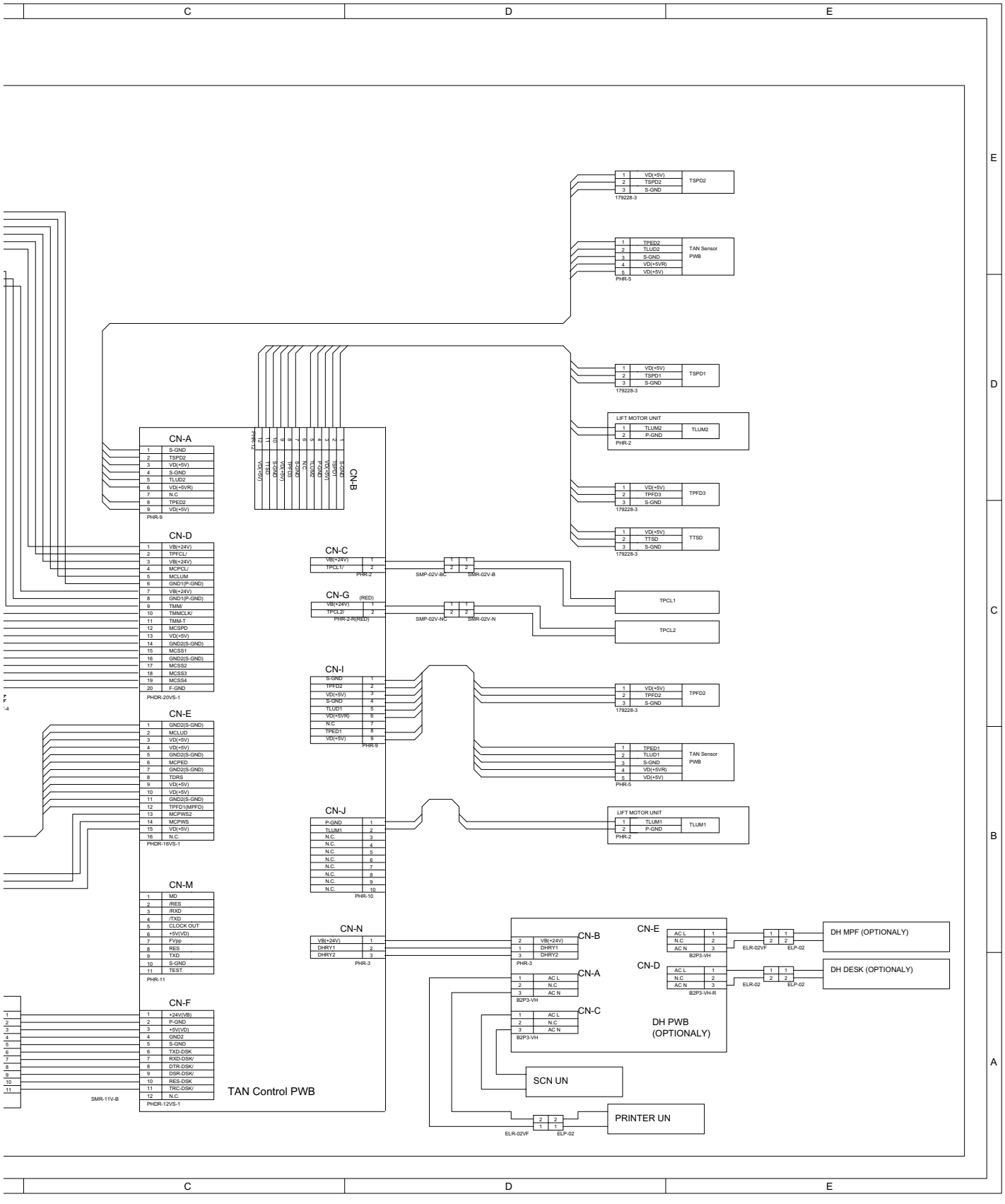
A. AR-D15




PAPER FEEDING UNIT
DLUD2
DPED2
DPFD3
DSPD2
LIFT MOTOR UNIT
DLUM2
PHR-2
CN-A
CN-B
CN-H
DPCL2
CN-G
DPCL1
PAPER FEEDING UNIT
DLUD1
DPED1
DPFD2
CN-I
CN-J
LIFT MOTOR UNIT
DLUM1
DSPD1
CN-D
CN-E
CN-K
PLS-PWB1
CN-L
PLS-PWB2
CN-M
CN-N
CN-B
CN-A
CN-C
CN-E
CN-D
DH MPF (OPTIONALY)
DH DESK (OPTIONALY)
DH PWB
(OPTIONALY)
CN-F
SCN UN
PRINTER UN
2nd Control PWB

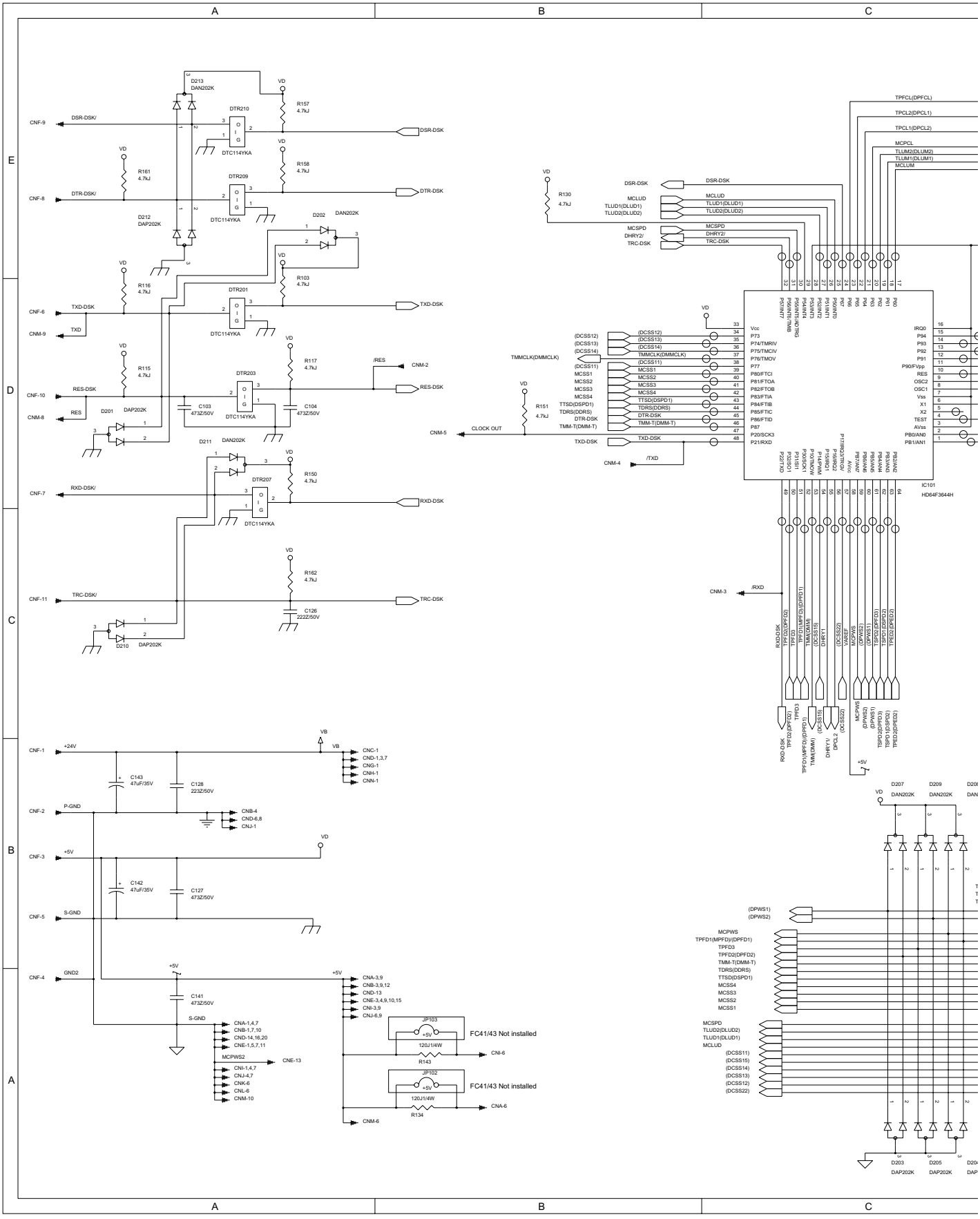
B. AR-D20

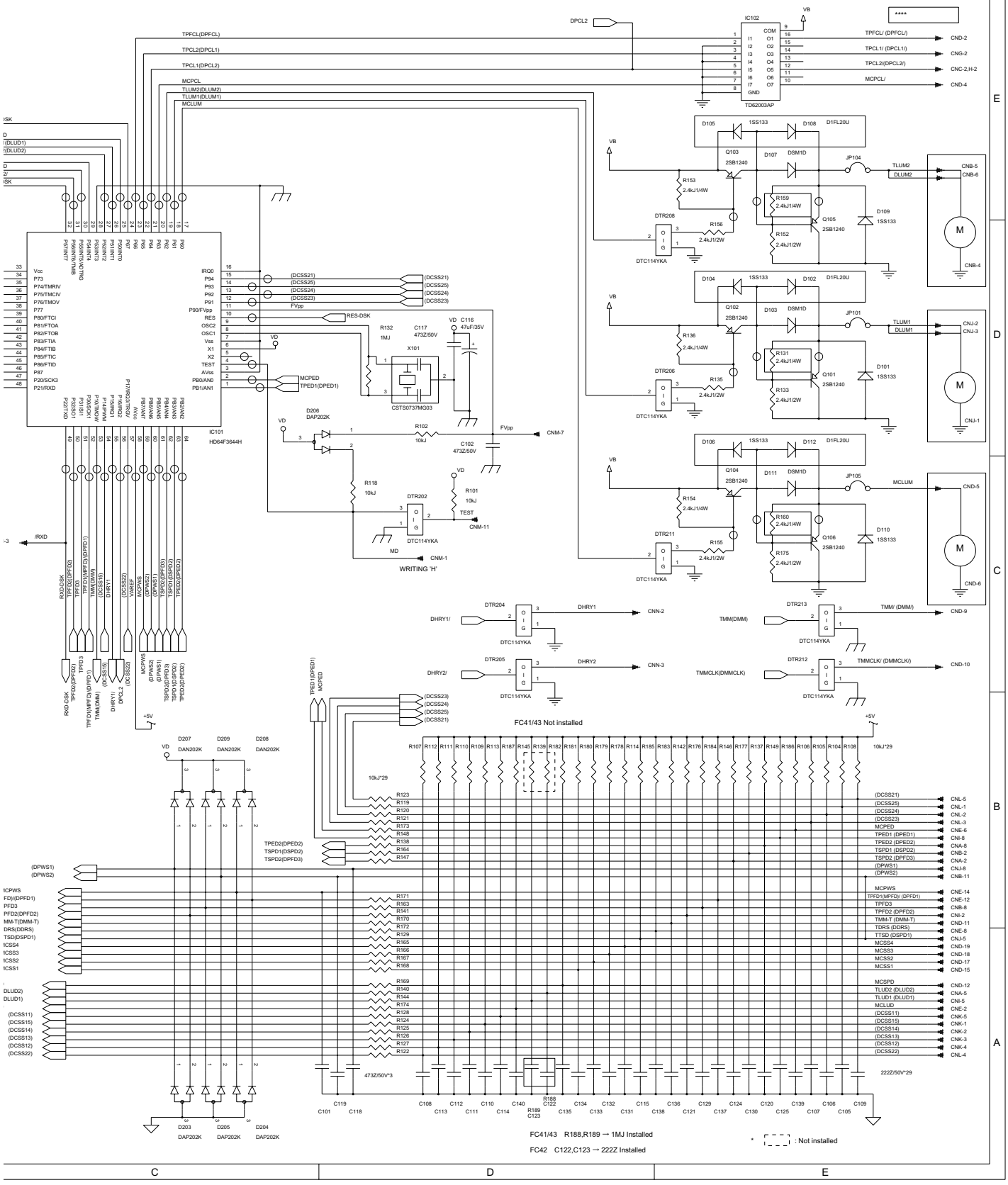

A
B
C
D
E
LIFT MOTOR UNIT
MCLUM
P-GND
MCLUM
PHR-2
MCPCL
SMR-02V-N
SMP-02V-NC
TPFCL
SMR-02V-B
SMP-02V-BC
TMM
TMMCLK/
TMM-T
TMM/
GND1
+24V
PHR-5
SMR-11V-N
SMP-11V-NC
MCSPD
+5V
MCSPD
GND2
179228-3
MPT LD PWB
N.C.
GND2
MCSS1
MCSS2
MCSS3
MCSS4
PHR-6
CN-A
S-GND
TSPD2
VD(+5V)
S-GND
TLUD2
VD(+5VR)
N.C
TPED2
VD(+5V)
PHR-9
CN-D
VB(+24V)
TPFCL/
VB(+24V)
MCPCL/
MCLUM
GND1(P-GND)
VB(+24V)
GND1(P-GND)
TMM/
TMMCLK/
TMM-T
MCSPD
VD(+5V)
GND2(S-GND)
MCSS1
GND2(S-GND)
MCSS2
MCSS3
MCSS4
F-GND
PHDR-20VS-1
SRA-21T-4
PAPER FEEDING UNIT
MCLUD
TPFD1(MPFD)
TDRS
MCPED
SMR-18V-B
SMP-18V-BC
CN-E
GND2(S-GND)
MCLUD
VD(+5V)
VD(+5V)
GND2(S-GND)
MCPED
GND2(S-GND)
TDRS
VD(+5V)
VD(+5V)
GND2(S-GND)
TPFD1(MPFD)
MCPWS2
MCPWS
VD(+5V)
N.C.
PHDR-16VS-1
MPT VR UN
MCPWS
MCPWS2
VAREF
SMR-03V-B
SMP-03V-BC
CN-M
MD
/RES
/RXD
/TXD
CLOCK OUT
+5V(VD)
FVpp
RES
TXD
S-GND
TEST
PHR-11
CN-G
OPTION DCPS
+24V(VB)
P-GND
+5V(VD)
GND2
S-GND
TXD-DSK
RXD-DSK/
DTR-DSK/
DSR-DSK/
RES-DSK
TRC-DSK/
SMR-11V-B
CN-F
+24V(VB)
P-GND
+5V(VD)
GND2
S-GND
TXD-DSK
RXD-DSK/
DTR-DSK/
DSR-DSK/
RES-DSK
TRC-DSK/
N.C.
PHDR-12VS-1
TAN Control PWB


C
D
E
CN-A
S-GND
TSPD2
VD(+5V)
S-GND
TLUD2
VD(+5VR)
N.C
TPED2
VD(+5V)
PHR-9
CN-D
VB(+24V)
TPFCL/
VB(+24V)
MCPCL/
MCLUM
GND1(P-GND)
VB(+24V)
GND1(P-GND)
TMM/
TMMCLK/
TMM-T
MCSPD
VD(+5V)
GND2(S-GND)
MCSS1
GND2(S-GND)
MCSS2
MCSS3
MCSS4
F-GND
PHDR-20VS-1
CN-E
GND2(S-GND)
MCLUD
VD(+5V)
VD(+5V)
GND2(S-GND)
MCPED
GND2(S-GND)
TDRS
VD(+5V)
VD(+5V)
GND2(S-GND)
TPFD1(MPFD)
MCPWS2
MCPWS
VD(+5V)
N.C.
PHDR-16VS-1
CN-M
MD
/RES
/RXD
/TXD
CLOCK OUT
+5V(VD)
FVpp
RES
TXD
S-GND
TEST
PHR-11
CN-F
+24V(VB)
P-GND
+5V(VD)
GND2
S-GND
TXD-DSK
RXD-DSK/
DTR-DSK/
DSR-DSK/
RES-DSK
TRC-DSK/
N.C.
PHDR-12VS-1
SMR-11V-B
TAN Control PWB
CN-B
CN-C
VB(+24V)
TPCL1/
PHR-2
SMP-02V-BC
SMR-02V-B
CN-G
(RED)
VB(+24V)
TPCL2/
PHR-2-R(RED)
SMP-02V-NC
SMR-02V-N
CN-I
S-GND
TPFD2
VD(+5V)
S-GND
TLUD1
VD(+5VR)
N.C
TPED1
VD(+5V)
PHR-9
CN-J
P-GND
TLUM1
N.C.
N.C.
N.C.
N.C.
N.C.
N.C.
N.C.
PHR-10
CN-N
VB(+24V)
DHRY1
DHRY2
PHR-3
TSPD2
VD(+5V)
TSPD2
S-GND
179228-3
TAN Sensor PWB
TPED2
TLUD2
S-GND
VD(+5VR)
VD(+5V)
PHR-5
TSPD1
VD(+5V)
TSPD1
S-GND
179228-3
LIFT MOTOR UNIT
TLUM2
P-GND
PHR-2
TPFD3
VD(+5V)
TPFD3
S-GND
179228-3
TTSD
VD(+5V)
TTSD
S-GND
179228-3
TPCL1
TPCL2
TPFD2
VD(+5V)
TPFD2
S-GND
179228-3
TAN Sensor PWB
TPED1
TLUD1
S-GND
VD(+5V)
VD(+5VR)
PHR-5
LIFT MOTOR UNIT
TLUM1
P-GND
PHR-2
CN-B
VB(+24V)
DHRY1
DHRY2
PHR-3
CN-A
AC L
N.C
AC N
B2P3-VH
CN-C
AC L
N.C
AC N
B2P3-VH
CN-E
AC L
N.C
AC N
B2P3-VH
ELR-02VF
ELP-02
DH MPF (OPTIONALY)
CN-D
AC L
N.C
AC N
B2P3-VH-R
ELR-02
ELP-02
DH DESK (OPTIONALY)
DH PWB (OPTIONALY)
SCN UN
PRINTER UN
ELR-02VF
ELP-02
A
B
C
D
E

2. Circuit Diagram

A. Desk Control PWB




IC101
HD64F3644H
IC102
TD62003AP
TPFCL(DPFCL)
TPCL2(DPCL1)
TPCL1(DPCL2)
MCPCL
TLUM2(DLUM2)
TLUM1(DLUM1)
MCLUM
RES-DSK
MCPED
TPED1(DPED1)
FVpp
/RXD
WRITING 'H'
TPFCL/ (DPFCL/)
TPCL1/ (DPCL1/)
TPCL2(DPCL2/)
MCPCL/
TLUM2
DLUM2
TLUM1
DLUM1
MCLUM
DHRY1/
DHRY2/
TMM(DMM)
TMMCLK(DMMCLK)
TMM/ (DMM/)
TMMCLK/ (DMMCLK/)
FC41/43 Not installed
FC41/43 R188,R189 → 1MJ Installed
FC42 C122,C123 → 222Z Installed
* : Not installed

*L:Tandem Desk,R:3Tray Desk

CN-A (B9B-PH-K-S)

1	S-GND	S-GND	DETEC TER
2	TSPD2	DPFD3	
3	VD(+5V)	VD(+5V)	
4	S-GND	S-GND	
5	TLUD2	DLUD2	
6	VD(+5V)	VD(+5V)	
7	N.C	S-GND	
8	TPED2	DPED2	
9	VD(+5V)	VD(+5V)	

CN-B (B12B-PH-K-S)

1	S-GND	S-GND	DETEC TER
2	TSPD1	DSPD2	
3	VD(+5V)	VD(+5V)	
4	P-GND	P-GND	LIFT UP MOTOR
5	TLUM2	N.C	
6	N.C	DLUM2	
7	S-GND	N.C	DETEC TER
8	TPFD3	N.C	
9	VD(+5V)	N.C	
10	S-GND	N.C	
11	TTSD	N.C	
12	VD(+5V)	N.C	

CN-C (B2B-PH-K-S)

1	VB(+24V)	PICK UP CLUTCH
2	TPCL2/	

*TAN Only

CN-D (B20B-PHDSS-B)

1	VB(+24V)	VB(+24V)	MULTI
2	TPFCL/	DPFCL/	
3	VB(+24V)	VB(+24V)	
4	MCPCL/	MCPCL/	
5	MCLUM	MCLUM	
6	GND1(P-GND)	GND1(P-GND)	
7	VB(+24V)	VB(+24V)	
8	GND1(P-GND)	GND1(P-GND)	
9	TMM/	DMM/	
10	TMMCLK/	DMMCLK/	

CN-E (B16B-PHDSS-B)

1	GND2(S-GND)	GND2(S-GND)	MULTI	9	VD(+5V)	VD(+5V)	MULTI
2	MCLUD	MCLUD		10	VD(+5V)	VD(+5V)	
3	VD(+5V)	VD(+5V)		11	GND2(S-GND)	GND2(S-GND)	
4	VD(+5V)	VD(+5V)		12	TPFD1(MPFD)	DPFD1	
5	GND2(S-GND)	GND2(S-GND)		13	MCPWS2	MCPWS2	
6	MCPED	MCPED		14	MCPWS	MCPWS	
7	GND2(S-GND)	GND2(S-GND)		15	VD(+5V)	VD(+5V)	
8	TDRS	DDRS		16	N.C	N.C	

CN-F (B12B-PHDSS-B)

1	+24V(VB)	+24V(VB)	POWER
2	P-GND	P-GND	
3	+5V(VD)	+5V(VD)	
4	GND2	GND2	
5	S-GND	S-GND	UART
6	TXD-DSK	TXD-DSK	
7	RXD-DSK/	RXD-DSK/	
8	DTR-DSK/	DTR-DSK/	
9	DSR-DSK/	DSR-DSK/	
10	RES-DSK	RES-DSK	
11	TRC-DSK/	TRC-DSK/	TIMING
12	N.C	N.C	

CN-G (B2B-PH-K-R(RED))

1	VB(+24V)	VB(+24V)
2	TPCL1/	DPCL1/

CN-J (B10B-PH-K-S)

1	P-GND	P-GND	LIFT UP MOTOR
2	VB(TLUM1)	N.C	
3	N.C	DLUM1	
4	N.C	S-GND	DETEC TER
5	N.C	DSPD1	
6	N.C	VD(+5V)	
7	N.C	N.C	
8	N.C	N.C	
9	N.C	N.C	
10	N.C	N.C	

CN-K (B6B-PH-K-S)

1	DCSS15	MPT LD PWB
2	DCSS14	
3	DCSS13	
4	DCSS12	
5	DCSS11	
6	S-GND	

*3T Only

CN-L (B6B-PH-K-R(RED))

1	DCSS25	MPT LD PWB
2	DCSS24	
3	DCSS23	
4	DCSS22	
5	DCSS21	
6	S-GND	

*3T Only

CN-M (B11B-PH-K-S)

1	MD	MD	FLASH WRITER PWB
2	/RES	/RES	
3	/RXD	/RXD	
4	/TXD	/TXD	
5	CLOCK OUT	CLOCK OUT	
6	+5V(VD)	+5V(VD)	
7	FVpp	FVpp	
8	RES	RES	
9	TXD	TXD	
10	S-GND	S-GND	
11	TEST	TEST	

	PICK UP CLUTCH

CN-D (B20B-PHDSS-B)

1	VB(+24V)	VB(+24V)	MULTI	11	TMM-T	DMM-T	MULTI
2	TPFCL/	DPFCL/		12	MCSPD	MCSPD	
3	VB(+24V)	VB(+24V)		13	VD(+5V)	VD(+5V)	
4	MCPCL/	MCPCL/		14	GND2(S-GND)	GND2(S-GND)	
5	MCLUM	MCLUM		15	MCSS1	MCSS1	
6	GND1(P-GND)	GND1(P-GND)		16	GND2(S-GND)	GND2(S-GND)	
7	VB(+24V)	VB(+24V)		17	MCSS2	MCSS2	
8	GND1(P-GND)	GND1(P-GND)		18	MCSS3	MCSS3	
9	TMM/	DMM/		19	MCSS4	MCSS4	
10	TMMCLK/	DMMCLK/		20	GND2(S-GND)	GND2(S-GND)	

+24V(VB)	POWER
P-GND	
+5V(VD)	
GND2	
S-GND	UART
TXD-DSK	
RXD-DSK/	
DTR-DSK/	
DSR-DSK/	
RES-DSK	
TRC-DSK/	TIMING
N.C	

CN-G (B2B-PH-K-R(RED))

1	VB(+24V)	VB(+24V)	PICK UP CLUTCH
2	TPCL1/	DPCL1/	

CN-H (B2B-PH-K-S)

1	VB(+24V)		PICK UP CLUTCH
2	DPCL2/		

*3T Only

CN-I (B9B-PH-K-S)

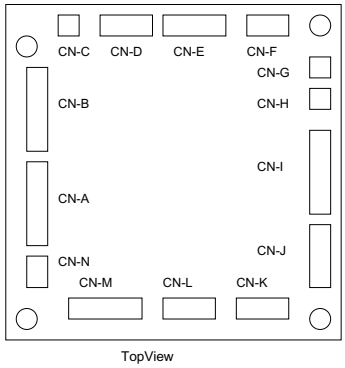
1	S-GND	S-GND	DETECTER
2	TPFD2	DPFD2	
3	VD(+5V)	VD(+5V)	
4	S-GND	S-GND	
5	TLUD1	DLUD1	
6	VD(+5V)	VD(+5V)	
7	N.C	S-GND	
8	TPED1	DPED1	
9	VD(+5V)	VD(+5V)	

CN-M (B11B-PH-K-S)

1	MD	MD	FLASH WRITER PWB
2	/RES	/RES	
3	/RXD	/RXD	
4	/TXD	/TXD	
5	CLOCK OUT	CLOCK OUT	
6	+5V(VD)	+5V(VD)	
7	FVpp	FVpp	
8	RES	RES	
9	TXD	TXD	
10	S-GND	S-GND	
11	TEST	TEST	

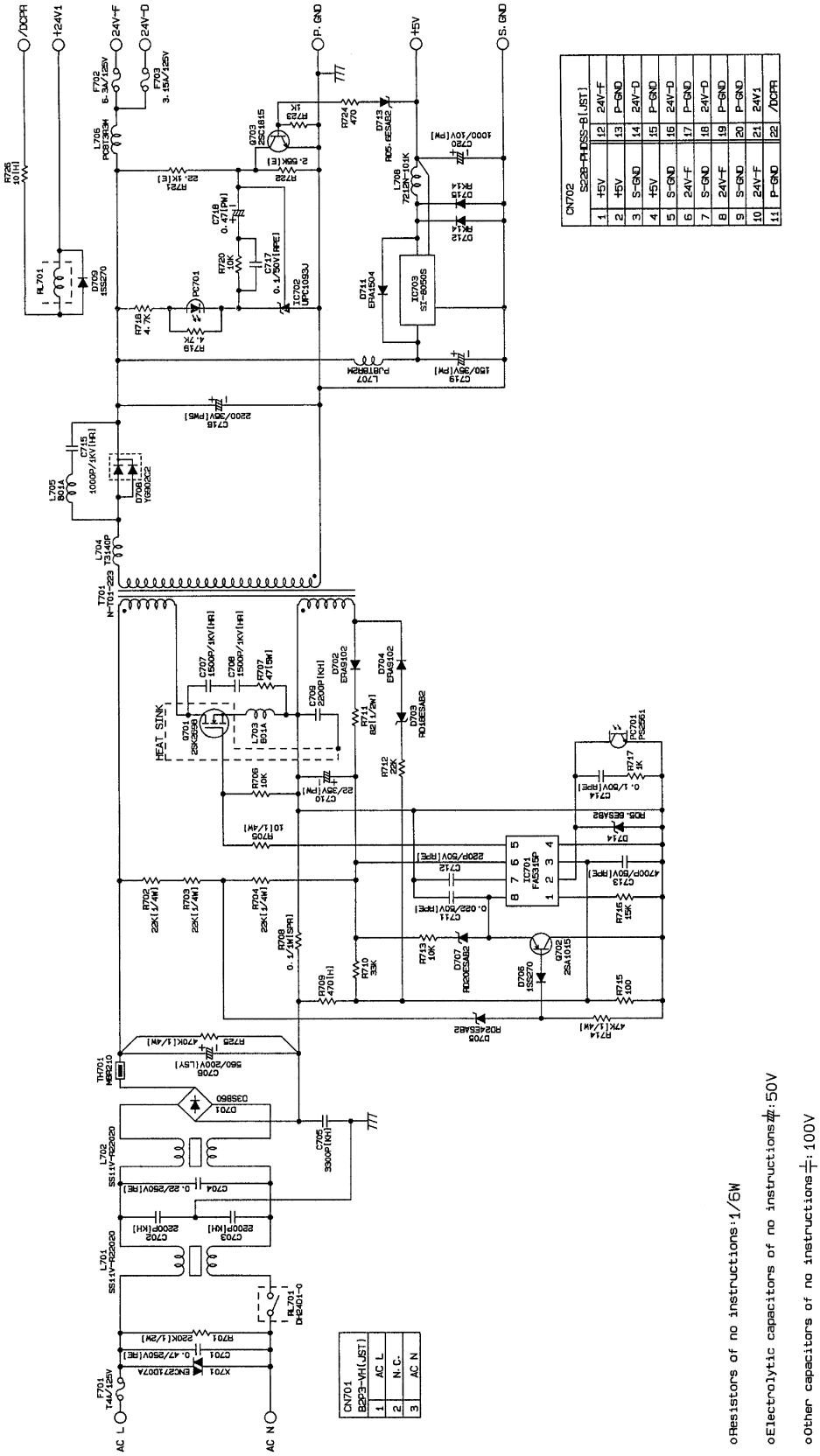
CN-N (B3B-PH-K-S)

1	VB(+24V)	VB(+24V)	DH RILLY
2	DHRY1	DHRY1	
3	DHRY2	DHRY2	

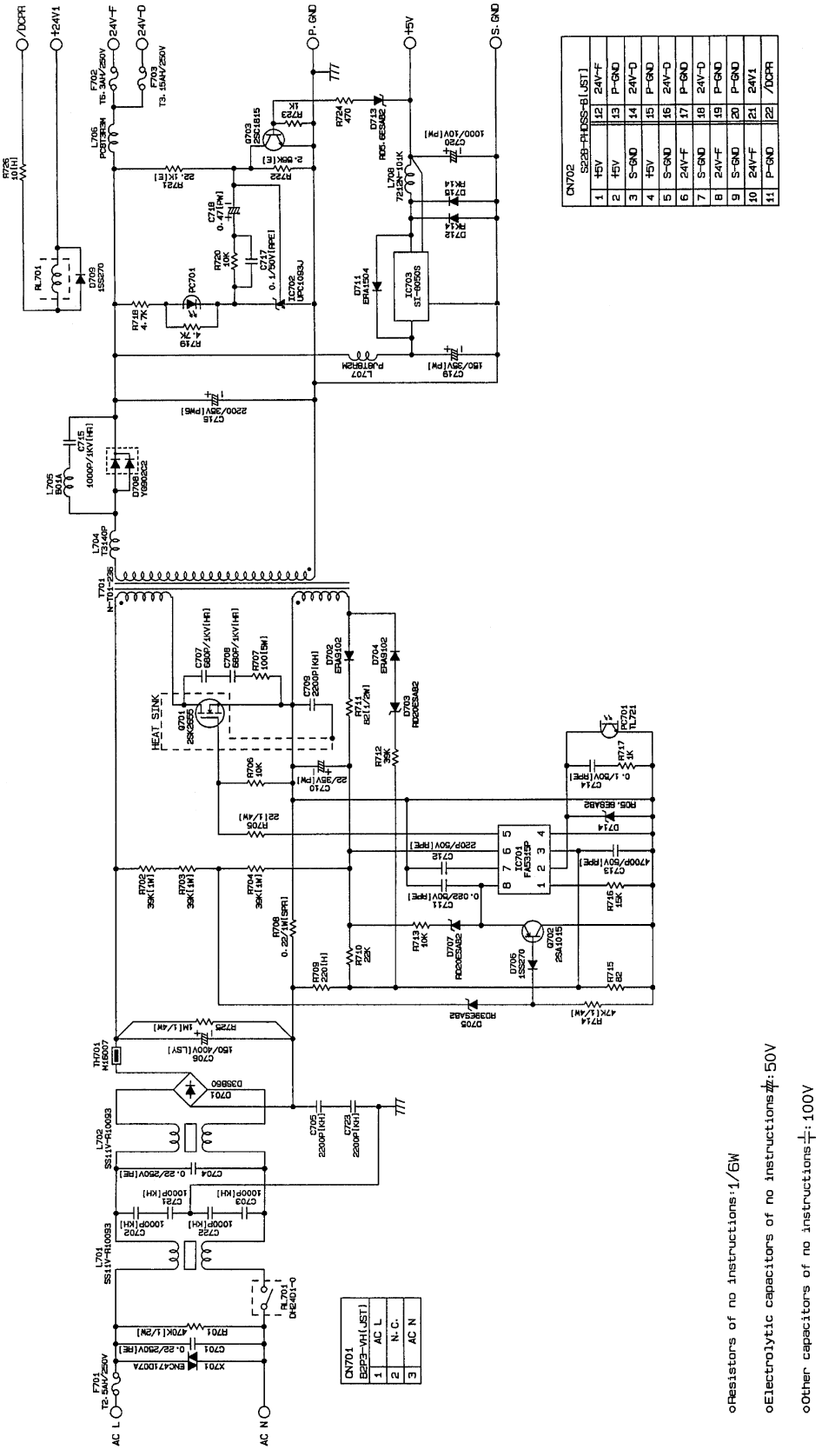


TopView

B. Power Supply PWB (100V series)



C. Power Supply PWB (200V series)



■ PARTS GUIDE

[注]
本パーツガイドは、AR-MU1/AR-D13/AR-D14/AR-DC1 からの変更点のみを記載しています。
AR-MU1/AR-D13/AR-D14/AR-DC1（資料コード：00ZARMU1//P1/）を合わせて活用下さい。

[Note]
The AR-D15/AR-D20 Parts Guide discribes only changed from AR-MU1/AR-D13/AR-D14/AR-DC1.
For the common parts, please refer to the AR-MU1/AR-D13/AR-D14/AR-DC1 Parts Guide (Code:00ZARMU1//P1/).

補修部品のランク付

市場における補修部品の在庫管理が、適正に運営出来る手助けとなることを、目的とします。

Aランク ：メンテナンスパーツ、メンテナンスパーツには入っていないがメンテナンスパーツに近い消耗パーツ。
Bランク ：性能・機能パーツ（センサー、クラッチ等の電気パーツ）、消耗パーツ。
Eランク ：基板含むユニットパーツ。
Dランク ：整備パーツ（外装、パッキング、同梱パーツ）。
Cランク ：上記ランク以外のパーツ（基板の子部品を除いたもの）。

DEFINITION

The definition of each Rank is as follows and also noted in the list

A: Maintenance parts, and consumable parts which are not included in but closely related to maintenance parts.
B: Performance/function parts (sensors, clutches, and other electrical parts), consumable parts.
E: Unit parts including PWB.
D: Preparation parts (External fitting, packing, parts packed together).
C: Parts other than the above (excluding sub components of PWB).

安全性・信頼性確保のため部品は、必ず正規のものをご使用下さい。
⚠ 印の商品は、安全上重要な部品です。交換をする時は、安全及び性能維持のため必ず指定の部品をご使用下さい。

Because parts marked with "⚠" is indispensable for the machine safety maintenance and operation, it must be replaced with the parts specific to the product specification.

○ 当モデルのサービス資料には、この資料以外にサービスマニュアル（回路図含む）があります。合わせてご利用下さい。
○ Other than this Parts Guide, please refer to documents Service Manual(including Circuit Diagram)of this model.
○ Please use the 13 digit code described in the right hand corner of front cover of the document, when you place an order.
○ For U.S. only-Use order codes provided in advertising literature. Do not order from parts department.
tment.

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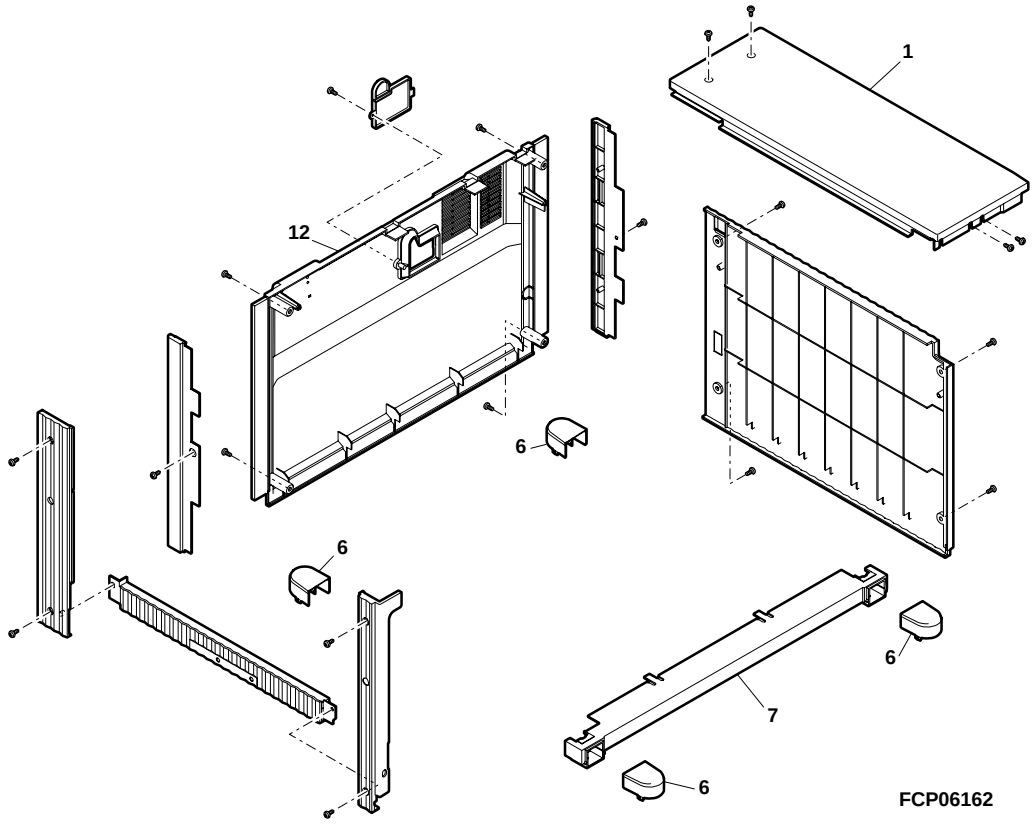
2 外装部 (Exteriors)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	GCAB-0953FCZ2	BL	HL		D	Top side exterior	天面ｷｬﾋﾞﾈｯﾄ
6	PCOVP1587FCZ3	AR	EQ		D	Adjuster cover	ｱｼﾞｬｽﾀｰｶﾊﾞｰ
7	GCAB-0975FCZ3	BC	GD		D	Desk front bottom exterior	ﾃﾞｽｸ前下ｷｬﾋﾞﾈｯﾄ
12	GCAB-0956FCZ4	BR	LP		D	Desk rear exterior	ﾃﾞｽｸ後ｷｬﾋﾞﾈｯﾄ

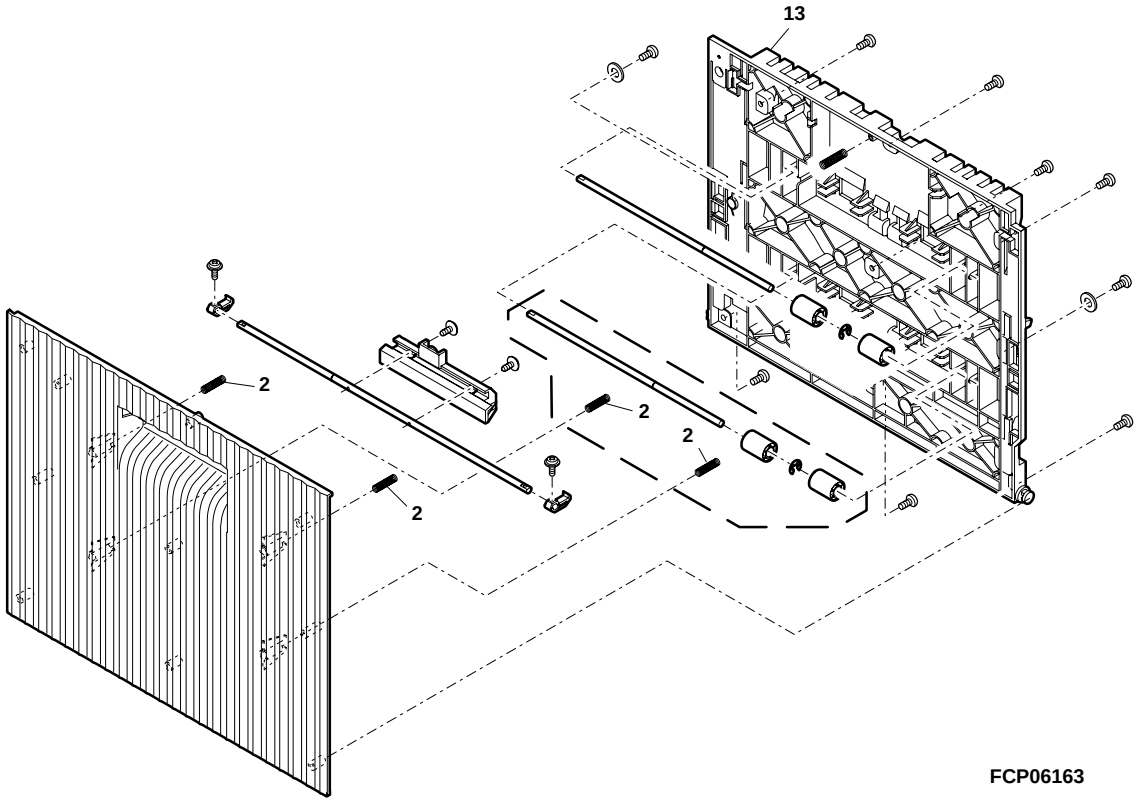
2 外装部 (Exteriors)



3 左ﾄﾞｱ (Left door)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
2	MSPRC2915FCZ2	AC	DJ		C	Left door follower spring 左ﾄﾞｱ従動ｽﾌﾟﾘﾝｸﾞ
13	PGiDM1944FCZ1	BH	GX		C	Desk left door PG ﾃﾞｽｸ左ﾄﾞｱPG

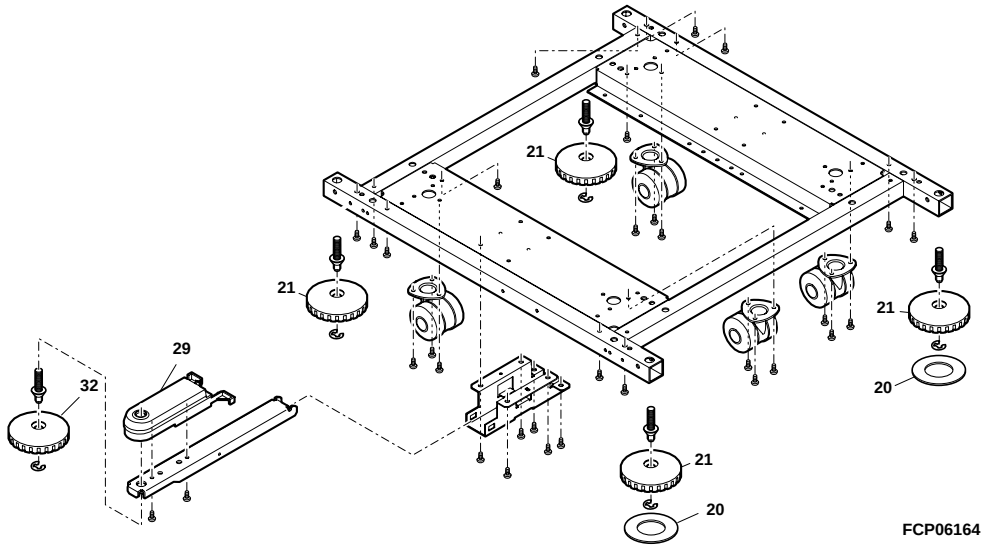
3 左ﾄﾞｱ (Left door)



5 ﾌﾚｰﾑ 1(Frame 1)[AR-D15]

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
20	PGUMS0294FCZ1	AR	EQ		C	Adjuster rubber plate	ｱｼﾞｬｽﾀｰｺﾞﾑ板
21	LPLTP5831FCZ1	AP	EQ		C	Adjuster wheel(φ80)	ｱｼﾞｬｽﾀｰﾎｲｰﾙ
29	PCOVP1588FCZ1	AW	FG		D	Left adjuster cover	左ｱｼﾞｬｽﾀｰｶﾊﾞｰ
32	LPLTP5831FCZ1	AP	EQ		C	Adjuster wheel(φ80)	ｱｼﾞｬｽﾀｰﾎｲｰﾙ

5 ﾌﾚｰﾑ 1(Frame 1)[AR-D15]



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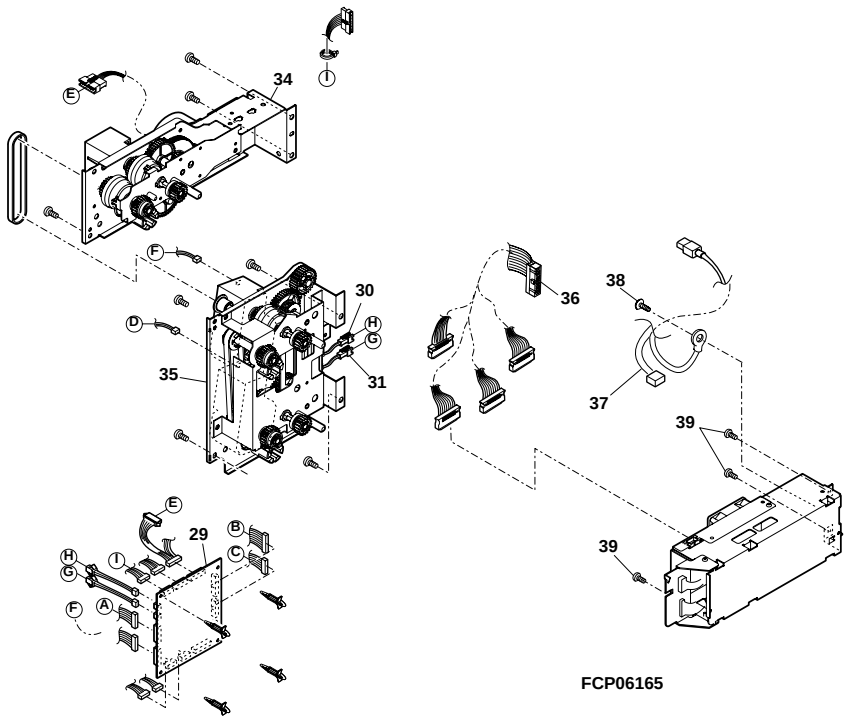
6 ﾌﾚｰﾑ 2(Frame 2)[AR-D15]

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
29	CPWBN1477FC42	BQ	LP		E	3T Control PWB((3T))	3T 制御基板
30	PCLC-0310FCZ1	AW	GD		C	5K clutch(W)	5K ｸﾗｯﾁ
31	PCLC-0311FCZ1	AW	GD		C	5K clutch(B)	5K ｸﾗｯﾁ
34	CFRM-1041FC33	BF	HZ		D	Multi-desk drive unit	ﾏﾙﾁﾃﾞｽｸ駆動ﾕﾆｯﾄ
35	CFRM-1046FC32	BQ	LP		D	Multi-stage drive unit	ﾏﾙﾁｽﾃｰｼﾞ駆動ﾕﾆｯﾄ
36	DHAi-3208FCZZ	BC	GD		C	Power supply harness	電源ﾊｰﾈｽ
37	DHAi-3294FCZZ	AX	FG		C	Power supply cord (Japan)	電源ｺｰﾄﾞ
	DHAi-3295FCZZ	AX		N	C	Power supply cord (Canada)	電源ｺｰﾄﾞ
	DHAi-3296FCZZ	AX		N	C	Power supply cord (Australia,New zealand,West Africa)	電源ｺｰﾄﾞ
38	XBPSD40P06K00	AA	DD		C	Screw(4×6K)	ﾋﾞｽ
39	XHBSE40P08000	AA	DD		C	Screw(4×8)	ﾋﾞｽ

6 ﾌﾚｰﾑ 2(Frame 2)[AR-D15]



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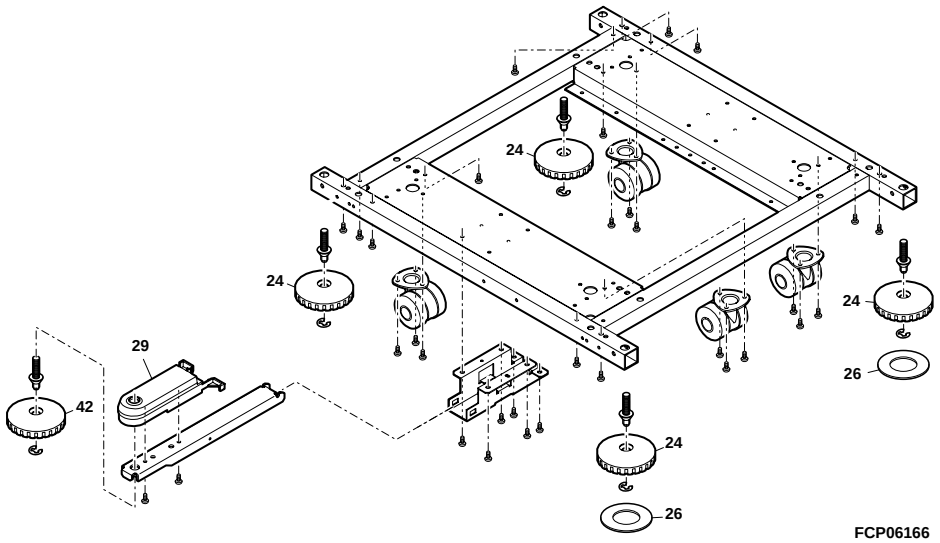
7 ﾌﾚｰﾑ 1(Frame 1)[AR-D20](Except Japan)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
24	LPLTP5831FCZ1	AP	EQ		C	Adjuster wheel(φ80)	ｱｼﾞｬｽﾀｰﾎｲｰﾙ
26	PGUMS0294FCZ1	AR	EQ		C	Adjuster rubber plate	ｱｼﾞｬｽﾀｰｺﾞﾑ板
29	PCOVP1588FCZ1	AW	FG		D	Left adjuster cover	左ｱｼﾞｬｽﾀｰｶﾊﾞｰ
42	LPLTP5831FCZ1	AP	EQ		C	Adjuster wheel(φ80)	ｱｼﾞｬｽﾀｰﾎｲｰﾙ

7 ﾌﾚｰﾑ 1(Frame 1)[AR-D20](Except Japan)

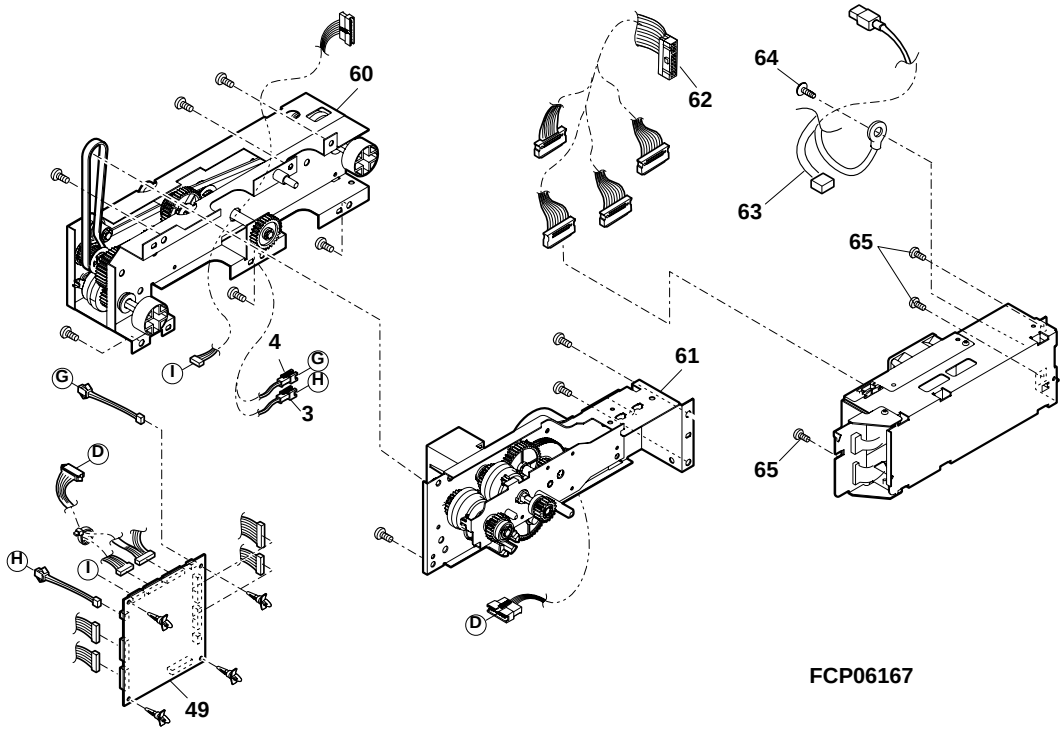


FCP06166

8 ﾌﾚｰﾑ 2(Frame 2)[AR-D20](Except Japan)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
3	PCLC-0310FCZ1	AW	GD		C	5K clutch(W)	5K ｸﾗｯﾁ
4	PCLC-0311FCZ1	AW	GD		C	5K clutch(B)	5K ｸﾗｯﾁ
49	CPWBN1477FC43	BP	RB		E	TAN control PWB	TAN 制御基板
60	CFRM-1045FC31	BG	LP		D	Tandem drive unit	ﾀﾝﾃﾞﾑ駆動ﾕﾆｯﾄ
61	CFRM-1041FC33	BF	HZ		D	Multi-desk drive unit	ﾏﾙﾁﾃﾞｽｸ駆動ﾕﾆｯﾄ
62	DHAi-3208FCZZ	BC	GD		C	Power supply harness	電源ﾊｰﾈｽ
63	DHAi-3295FCZZ	AX		N	C	Power supply cord (Canada)	電源ｺｰﾄﾞ
	DHAi-3296FCZZ	AX		N	C	Power supply cord (Australia,New zealand,West Africa)	電源ｺｰﾄﾞ
64	XBPSD40P06K00	AA	DD		C	Screw(4×6K)	ﾋﾞｽ
65	XHBSE40P08000	AA	DD		C	Screw(4×8)	ﾋﾞｽ

8 ﾌﾚｰﾑ 2(Frame 2)[AR-D20](Except Japan)

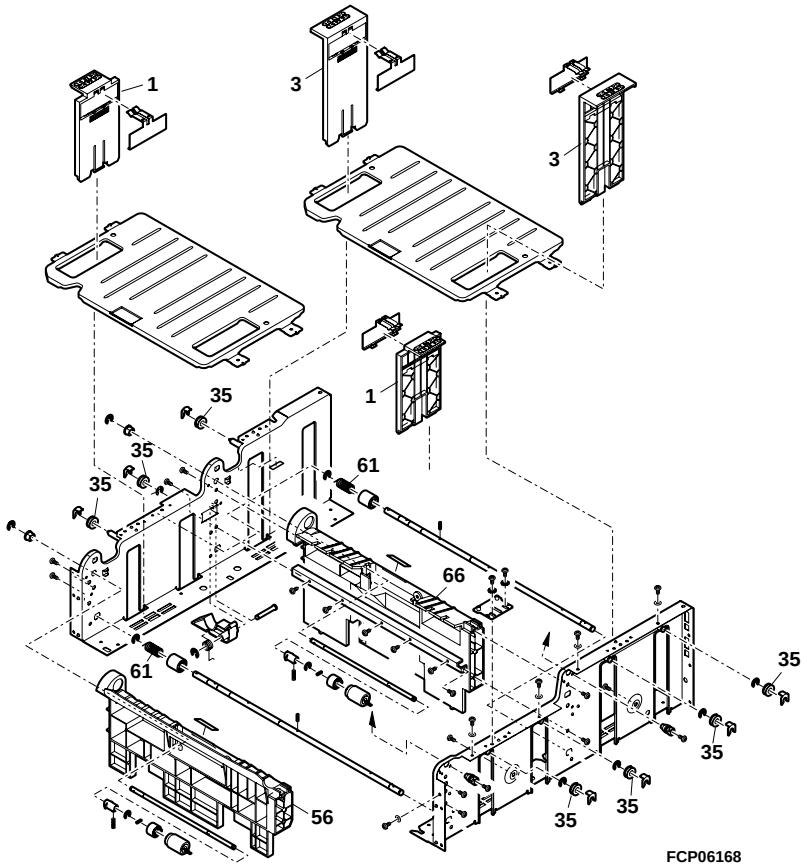


FCP06167

9 ﾀﾝﾃﾞﾑｶｾｯﾄ (Tandem cassette)[AR-D20](Except Japan)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	CPLTP5837FC01	AX	FG	N	C	Tandem regulation plate L	ﾀﾝﾃﾞﾑ規制板 L
3	CPLTP5838FC01	AZ	FQ	N	C	Tandem regulation plate R	ﾀﾝﾃﾞﾑ規制板 R
35	NPLYZ0400FCZZ	AC	DJ		C	Wire pulley	ﾜｲﾔｰﾌﾟｰﾘｰ
56	PGiDM1920FCZ5	BF	GN		C	Tandem paper feed lower PG L	ﾀﾝﾃﾞﾑ給紙下 PG L
61	MSPRD2910FCZ2	AK	EB		C	Tray lift support spring	ﾄﾚｲﾘﾌﾄ補助ｽﾌﾟﾘﾝｸﾞ
66	PGiDM1919FCZ6	BF	GN		C	Tandem paper feed lower PG R	ﾀﾝﾃﾞﾑ給紙下 PG R

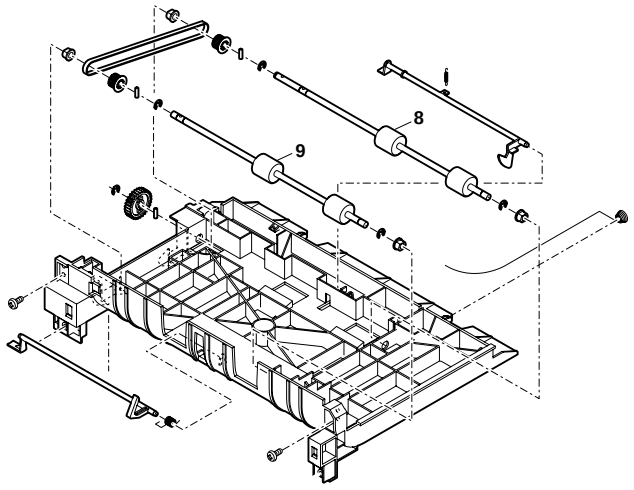
9 ﾀﾝﾃﾞﾑｶｾｯﾄ (Tandem cassette)[AR-D20](Except Japan)



10 ﾀﾝﾃﾞﾑ搬送 (Tandem transfer)[AR-D20](Except Japan)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
8	NROLR1339FCZ1	AQ	FG		C	Tandem transfer roller	ﾀﾝﾃﾞﾑ搬送ﾛｰﾗｰ
9	NROLR1340FCZ1	AQ	FG		C	Tandem vertical transfer roller	ﾀﾝﾃﾞﾑ縦搬送ﾛｰﾗｰ

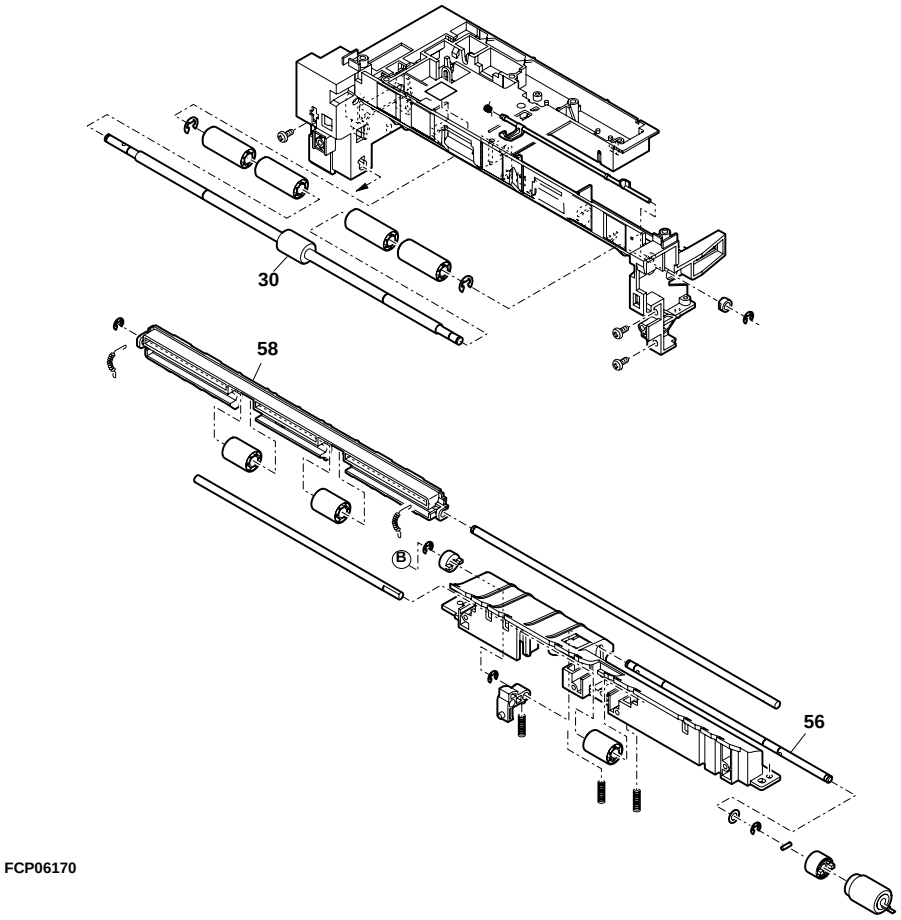
10 ﾀﾝﾃﾞﾑ搬送 (Tandem transfer)[AR-D20](Except Japan)



11 ﾏﾙﾁ給紙 (Multi paper feed)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
30	NROLR1335FCZ1	AC	DJ		C	Transfer roller	搬送ﾛｰﾗｰ
56	NSFTZ2622FCZ2	AX	FG		C	Multi separation roller shaft	ﾏﾙﾁ分離ﾛｰﾗｰ軸
58	PGiDM1913FCZ1	AV	FG		C	Multi paper exit paper guide	ﾏﾙﾁ出紙 PG

11 ﾏﾙﾁ給紙 (Multi paper feed)



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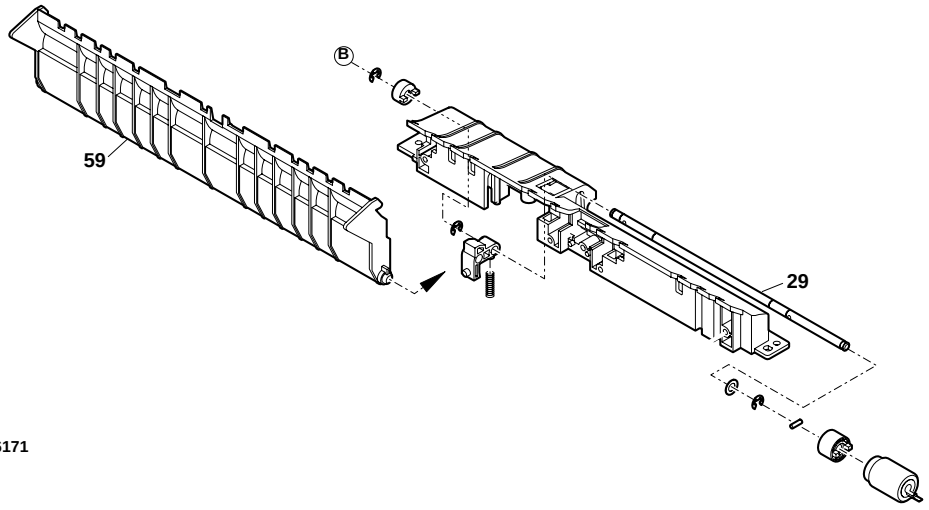
12 多段給紙 (Paper feeding section)[AR-D15]

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
29	NSFTZ2622FCZ2	AX	FG		C	Multi separation roller shaft	ﾏﾙﾁ分離ﾛｰﾗｰ軸
59	PGiDM1915FCZ1	AZ	FQ		C	Multi U-turn paper guide	ﾏﾙﾁ Uﾀｰﾝ PG

12 多段給紙 (Paper feeding section)[AR-D15]

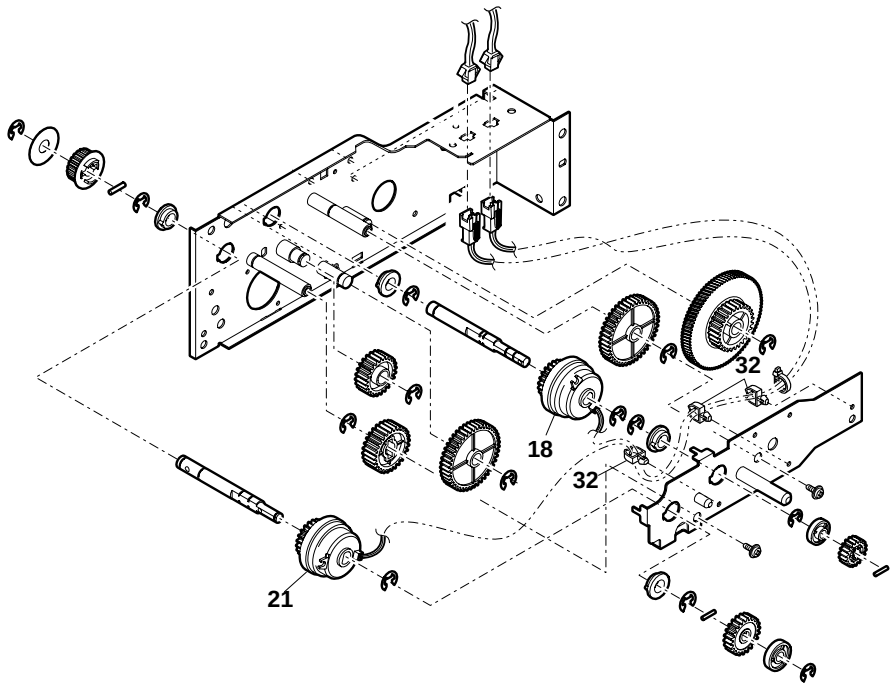


FCP06171

14 ﾏﾙﾁ駆動 (Multi drive)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
18	PCLC-0310FCZ1	AA	DJ		C	5K clutch(W)	5K ｸﾗｯﾁ
21	PCLC-0311FCZ1	AW	GD		C	5K clutch(B)	5K ｸﾗｯﾁ
32	LHLDW1009ACZZ	AA	DD		C	Mini clamp(UAMS-05S-2)	ﾐﾆｸﾗﾝﾌﾟ

14 ﾏﾙﾁ駆動 (Multi drive)

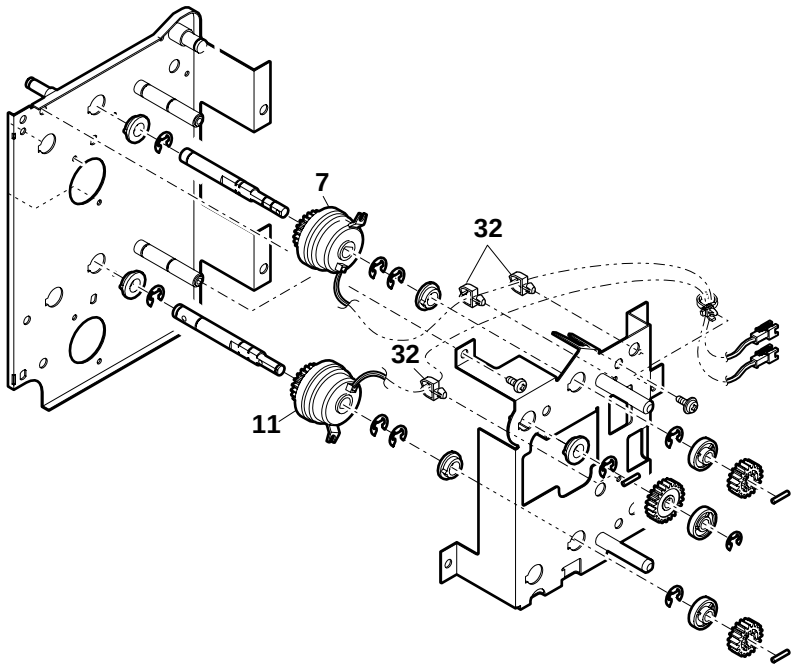


FCP06172

15 多段駆動 (Drive section)[AR-D15]

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
7	PCLC-0310FCZ1	AW	GD		C	5K clutch(W)	5K ｸﾗｯﾁ
11	PCLC-0311FCZ1	AW	GD		C	5K clutch(B)	5K ｸﾗｯﾁ
32	LHLDW1009ACZZ	AA	DD		C	Mini clamp(UAMS-05S-2)	ﾐﾆｸﾗﾝﾌﾟ

15 多段駆動 (Drive section)[AR-D15]

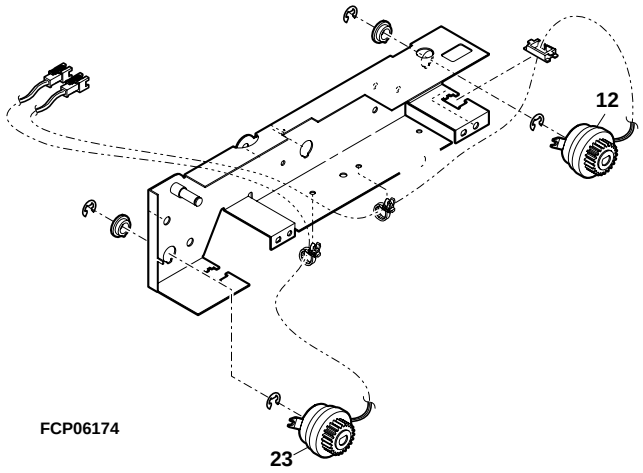


FCP06173

16 ﾀﾝﾃﾞﾑ駆動 (Tandem drive section)[AR-D20](Except Japan)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
12	PCLC−0311FCZ1	AW	GD		C	5K clutch(B)	5K ｸﾗｯﾁ
23	PCLC−0310FCZ1	AW	GD		C	5K clutch(W)	5K ｸﾗｯﾁ

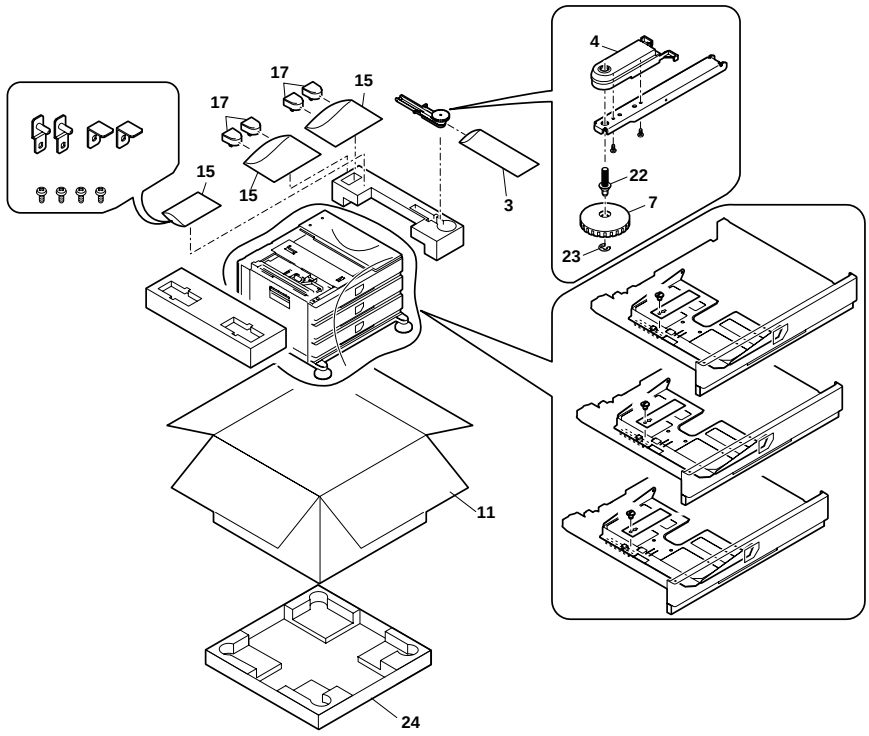
16 ﾀﾝﾃﾞﾑ駆動 (Tandem drive section)[AR-D20](Except Japan)



19 梱包 & 付属品 (Packing Material & Accessories)[AR-D15]

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
3	SSAKZ0020FCZZ	AF	DS		D	Vinyl bag	ﾎﾟﾘ袋
4	PCOVP1588FCZ1	AW	FG		D	Left adjuster cover	左ｱｼﾞｬｽﾀｰｶﾊﾞｰ
7	LPLTP5831FCZ1	AP	EQ		C	Adjuster wheel	ｱｼﾞｬｽﾀｰﾎｲｰﾙ
11	SPAKC6436FCZZ	BG	GT	N	D	Packing case(Japan)	個装ｹｰｽ
	SPAKC6435FCZZ	BG	GT	N	D	Packing case(except Japan)	個装ｹｰｽ
15	0EUSAK0617P／／	AB	DJ		D	Vinyl bag(90×170)	ﾎﾟﾘ袋
17	PCOVP1587FCZ3	AR	EQ		D	Adjuster cover	ｱｼﾞｬｽﾀｰｶﾊﾞｰ
22	NSFTZ2627FCZZ	AL	EB		C	Adjuster shaft	ｱｼﾞｬｽﾀｰｼｬﾌﾄ
23	XRESP60−08000	AA	DD		C	E type ring(E6)	E-ﾘﾝｸﾞ
24	CPAKA6187FC01	BG	GT		B	Bottom case	底ｹｰｽ

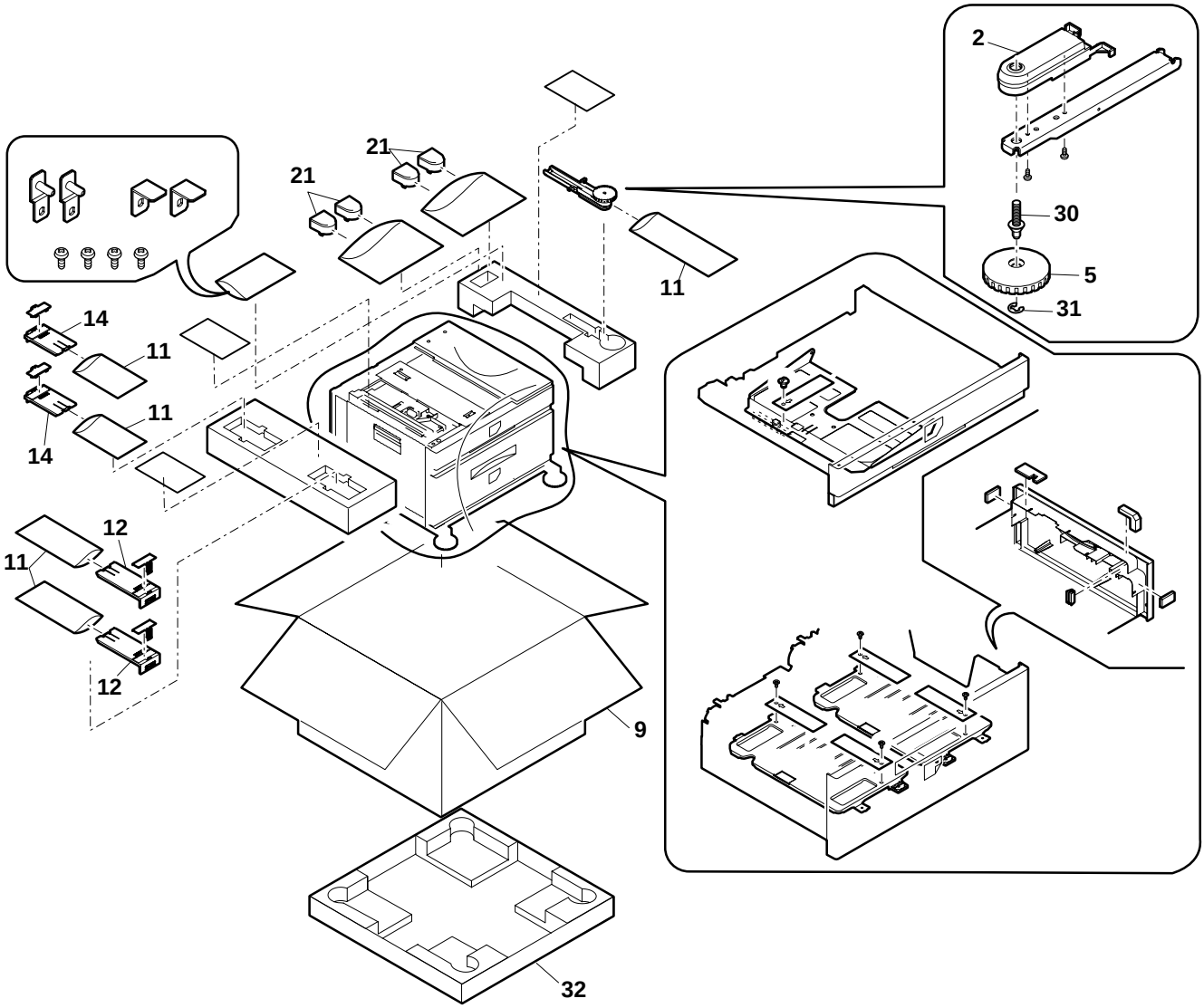
19 梱包 & 付属品 (Packing Material & Accessories)[AR-D15]



20 梱包 & 付属品 (Packing Material & Accessories)[AR-D20](Except Japan)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
2	PCOVP1588FCZ1	AW	FG		D	Left adjuster cover	左ｱｼﾞｬｽﾀｰｶﾊﾞｰ
5	LPLTP5831FCZZ	AP	EQ		C	Adjuster wheel	ｱｼﾞｬｽﾀｰﾎｲｰﾙ
9	SPAKC6433FCZZ	BG	GT	N	D	Tandem packing case	ﾀﾝﾃﾞﾑ個装ｹｰｽ
11	SSAKZ0020FCZZ	AF	DS		D	Vinyl bag	ﾎﾟﾘ袋
12	CPLTP5837FC01	AX	FG	N	C	Tandem regulation plate L	ﾀﾝﾃﾞﾑ規制板 L
14	CPLTP5838FC01	AZ	FQ	N	C	Tandem regulation plate R	ﾀﾝﾃﾞﾑ規制板 R
21	PCOVP1587FCZ3	AR	EQ		D	Adjuster cover	ｱｼﾞｬｽﾀｰｶﾊﾞｰ
30	NSFTZ2627FCZZ	AL	EB		C	Adjuster shaft	ｱｼﾞｬｽﾀｰｼｬﾌﾄ
31	XRESP60−08000	AA	DD		C	E type ring(E6)	E-ﾘﾝｸﾞ
32	CPAKA6187FC01	BG	GT		B	Bottom case	底ｹｰｽ

20 梱包 & 付属品 (Packing Material & Accessories)[AR-D20](Except Japan)



FCP06176

24 3T ｺﾝﾄﾛｰﾙ基板 (3T Control PWB)[AR-D15]

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	0EUUNT27C013B	BB	GD		B	CPU unit [IC101] CPU
2	QCNCM0877FCZZ	AF	DS		C	Connector(20pin) [CND] ｺﾈｸﾀｰ
3	QCNCM0923FC12	AE	DJ		C	Connector(12pin) [CNF] ｺﾈｸﾀｰ
4	QCNCM0923FC16	AF	DS		C	Connector(16pin) [CNE] ｺﾈｸﾀｰ
5	QCNCM2401SC0B	AA	DD		C	Connector(2pin) [CNG] ｺﾈｸﾀｰ
6	QCNCM2401SC0F	AB	DJ		C	Connector(6pin) [CNL] ｺﾈｸﾀｰ
7	QCNCM7014SC0B	AD	DJ		C	Connector(2pin) [CNH] ｺﾈｸﾀｰ
8	QCNCM7014SC0C	AA	DD		C	Connector(3pin) [CNN] ｺﾈｸﾀｰ
9	QCNCM7014SC0F	AB	DD		C	Connector(6pin) [CNK] ｺﾈｸﾀｰ
10	QCNCM7014SC0i	AB	DD		C	Connector(9pin) [CNA,I] ｺﾈｸﾀｰ
12	QCNCM7014SC1B	AD	DJ		C	Connector(12pin) [CNB] ｺﾈｸﾀｰ
13	QCNCM7014SC1J	AC	DD		C	Connector(B10B-PH-K-S) [CNJ] ｺﾈｸﾀｰ
14	RCRM-0004FCZZ	AU	EZ		B	Crystal(7.37MHz) [X101] ｸﾘｽﾀﾙ
16	VCEAGA1VW476M	AB	DD		C	Capacitor(35WV 47μF) [C116,142,143] ｺﾝﾃﾞﾝｻｰ
17	VCKYCZ1CF473Z	AA	DD		C	Capacitor(16WV 0.047μF) [C101~104,117,118,119,127,141] ｺﾝﾃﾞﾝｻｰ
18	VCKYCZ1HB222K	AA	DD		C	Capacitor(50WV 2200pF) [C105~115 、120~126,129~140] ｺﾝﾃﾞﾝｻｰ
19	VCKYPA1HF223Z	AA	DD		C	Capacitor(50WV 22000pF) [C128] ｺﾝﾃﾞﾝｻｰ
20	VHDDAN202K/-1	AB	DD		B	Diode(DAN202K) [D202,207,208,209,211,213] ﾀﾞｲｵｰﾄﾞ
21	VHDDAP202K/-1	AB	DD		B	Diode(DAP202K) [D201,203,204,205,206,210,212] ﾀﾞｲｵｰﾄﾞ
23	VHiTD62003AP1	AG	DX		B	IC(TD620003AP1) [IC102] IC
24	VRD-HT2HY302J	AA	DD		C	Resistor(1/2W 3.0KΩ ±5%) [R135,136,137,154~158,161] 抵抗
25	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R101,102,104~114] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R118~129,137~142] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R144~149,163~174,176~187] 抵抗
26	VRS-CZ1JD105J	AA	DD		C	Resistor(1/16W 1MΩ ±5%) [R132] 抵抗
27	VRS-CZ1JD472J	AA	DD		C	Resistor(1/16W 4.7KΩ ±5%) [R103,115~117,130,150,151,157,158,161,162] 抵抗
28	VS2SB1240-/-1	AD	DJ		B	Transistor(2SB1240) [Q101~106] ﾄﾗﾝｼﾞｽﾀｰ
30	VSDTC114YK/-1	AC	ZZ		B	Transistor(DTC114YK) [DTR201~213] ﾄﾗﾝｼﾞｽﾀｰ
31	VRD-HT2HY242J	AA	DD		C	Resistor(1/2W 2.4KΩ ±5%) [R133,135,152,155,156,175] 抵抗
32	VRD-HT2EY242J	AA	DD		C	Resistor(1/4W 2.4KΩ ±5%) [R136,153,154] 抵抗
33	VHDDSS133//-1	AA	DD		B	Diode(DSS133) [D101,109,110] ﾀﾞｲｵｰﾄﾞ
34	VHDDSM1D1//-1	AB	DJ		B	Diode(DSM1D1) [D103,107,111] ﾀﾞｲｵｰﾄﾞ
						(Unit)
901	CPWBN1477FC42	BQ	LP		E	3T Control PWB 3T 制御基板

25 TAN ｺﾝﾄﾛｰﾙ基板 (TAN Control PWB)[AR-D20](Except Japan)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	0EUUNT27C014G	BB	GD		B	CPU unit [IC101] CPU
2	QCNCM0877FCZZ	AF	DS		C	Connector(20pin) [CND] ｺﾈｸﾀｰ
3	QCNCM0923FC12	AE	DJ		C	Connector(12pin) [CNF] ｺﾈｸﾀｰ
4	QCNCM0923FC16	AF	DS		C	Connector(16pin) [CNE] ｺﾈｸﾀｰ
5	QCNCM2401SC0B	AA	DD		C	Connector(2pin) [CNG] ｺﾈｸﾀｰ
6	QCNCM7014SC0B	AD	DJ		C	Connector(2pin) [CNC] ｺﾈｸﾀｰ
7	QCNCM7014SC0C	AA	DD		C	Connector(3pin) [CNN] ｺﾈｸﾀｰ
8	QCNCM7014SC0i	AB	DD		C	Connector(9pin) [CNA,I] ｺﾈｸﾀｰ
9	QCNCM7014SC1A	AC	DJ		C	Connector(11pin) [CNM] ｺﾈｸﾀｰ
10	QCNCM7014SC1B	AD	DJ		C	Connector(12pin) [CNB] ｺﾈｸﾀｰ
11	QCNCM7014SC1J	AC	DD		C	Connector(B10B-PH-K-S) [CNJ] ｺﾈｸﾀｰ
12	RCRM-0004FCZZ	AU	EZ		B	Crystal(7.37MHz) [X101] ｸﾘｽﾀﾙ
14	VCEAGA1VW476M	AB	DD		C	Capacitor(35WV 47μF) [C116,142,143] ｺﾝﾃﾞﾝｻｰ
15	VCKYCZ1CF473Z	AA	DD		C	Capacitor(16WV 0.047μF) [C101~104,117~119,127,141] ｺﾝﾃﾞﾝｻｰ
16	VCKYCZ1HB222K	AA	DD		C	Capacitor(50WV 2200pF) [C105~115,120,121,124~126,129~140] ｺﾝﾃﾞﾝｻｰ
17	VCKYPA1HF223Z	AA	DD		C	Capacitor(50WV 22000pF) [C128] ｺﾝﾃﾞﾝｻｰ
18	VHDDAN202K/-1	AB	DD		B	Diode(DAN202K) [D202,207,208,209,211,213] ﾀﾞｲｵｰﾄﾞ
19	VHDDAP202K/-1	AB	DD		B	Diode(DAP202K) [D201,203,204,205,206,210,212] ﾀﾞｲｵｰﾄﾞ
21	VHiTD62003AP1	AG	DX		B	IC(TD620003AP1) [IC102] IC
22	VRD-HT2EY121J	AA	DD		C	Resistor(1/4W 120Ω ±5%) [R134,143] 抵抗
24	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R101,102,104~114,118~129,137,138] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R140~142,144,146~149,163~174,176~187] 抵抗
25	VRS-CZ1JD105J	AA	DD		C	Resistor(1/16W 1MΩ ±5%) [R132,188,189] 抵抗
26	VRS-CZ1JD472J	AA	DD		C	Resistor(1/16W 4.7KΩ ±5%) [R103,115~117,130,150,151,157,158,161,162] 抵抗
29	VSDTC114YK/-1	AC	ZZ		B	Transistor(DTC114YK) [DTR201~213] ﾄﾗﾝｼﾞｽﾀｰ
30	VS2SB1240-/-1	AD	DJ		B	Transistor(2SB1240) [Q101~106] ﾄﾗﾝｼﾞｽﾀｰ
31	VRD-HT2HY242J	AA	DD		C	Resistor(1/2W 2.4KΩ ±5%) [R133,135,152,155,156,175] 抵抗
32	VRD-HT2EY242J	AA	DD		C	Resistor(1/4W 2.4KΩ ±5%) [R136,153,154] 抵抗
33	VHDDSS133//-1	AA	DD		B	Diode(DSS133) [D101,109,110] ﾀﾞｲｵｰﾄﾞ
34	VHDDSM1D1//-1	AB	DJ		B	Diode(DSM1D1) [D103,107,111] ﾀﾞｲｵｰﾄﾞ
						(Unit)
901	CPWBN1477FC43	BP	RB		E	TAN control PWB TAN 制御基板

■ 索引 (Index)

PARTS CODE	JAPAN ONLY ORDER CODE	NO.	PRICE R. Ex.	PRICE R. Ja.	NEW	P/R
【C】						
CFRM-1041FC33	572 213 2174	6- 34	BF	HZ		D
〃	572 213 2174	8- 61	BF	HZ		D
CFRM-1045FC31	572 213 2176	8- 60	BG	LP		D
CFRM-1046FC32	572 213 2177	6- 35	BQ	LP		D
CPAKA6187FC01	572 902 1683	19- 24	BG	GT		B
〃	572 902 1683	20- 32	BG	GT		B
CPLTP5837FC01	572 221 8198	20- 12	AX	FG	N	C
〃	572 221 8198	9- 1	AX	FG	N	C
CPLTP5838FC01	572 221 8199	20- 14	AZ	FQ	N	C
〃	572 221 8199	9- 3	AZ	FQ	N	C
CPWBN1477FC42	572 684 4014	24-901	BQ	LP		E
〃	572 684 4014	6- 29	BQ	LP		E
CPWBN1477FC43	572 684 4015	25-901	BP	RB		E
〃	572 684 4015	8- 49	BP	RB		E
【D】						
DHAi-3208FCZZ	572 542 2086	6- 36	BC	GD		C
〃	572 542 2086	8- 62	BC	GD		C
DHAi-3294FCZZ	572 542 2085	6- 37	AX	FG		C
DHAi-3295FCZZ		6- 37	AX		N	C
〃		8- 63	AX		N	C
DHAi-3296FCZZ		6- 37	AX		N	C
〃		8- 63	AX		N	C
【G】						
GCAB-0953FCZ2	572 107 2079	2- 1	BL	HL		D
GCAB-0956FCZ4	572 107 2061	2- 12	BR	LP		D
GCAB-0975FCZ3	572 107 2082	2- 7	BC	GD		D
【L】						
LHLDW1009ACZZ	541 214 5023	14- 32	AA	DD		C
〃	541 214 5023	15- 32	AA	DD		C
LPLTP5831FCZ1	572 221 8080	19- 7	AP	EQ		C
〃	572 221 8080	5- 21	AP	EQ		C
〃	572 221 8080	5- 32	AP	EQ		C
〃	572 221 8080	7- 24	AP	EQ		C
〃	572 221 8080	7- 42	AP	EQ		C
LPLTP5831FCZZ	572 221 7851	20- 5	AP	EQ		C
【M】						
MSPRC2915FCZ2	572 258 3940	3- 2	AC	DJ		C
MSPRD2910FCZ2	572 258 4070	9- 61	AK	EB		C
【N】						
NPLYZ0400FCZZ	572 284 0860	9- 35	AC	DJ		C
NRŌLR1335FCZ1	572 287 2254	11- 30	AQ	FG		C
NRŌLR1339FCZ1	572 287 2366	10- 8	AQ	FG		C
NRŌLR1340FCZ1	572 287 2367	10- 9	AQ	FG		C
NSFTZ2622FCZ2	572 290 2800	11- 56	AX	FG		C
〃	572 290 2800	12- 29	AX	FG		C
NSFTZ2627FCZZ	572 290 2756	19- 22	AL	EB		C
〃	572 290 2756	20- 30	AL	EB		C
【P】						
PCLC-0310FCZ1	572 316 0411	14- 18	AW	GD		C
〃	572 316 0411	15- 7	AW	GD		C
〃	572 316 0411	16- 23	AW	GD		C
〃	572 316 0411	6- 30	AW	GD		C
〃	572 316 0411	8- 3	AW	GD		C
PCLC-0311FCZ1	572 316 0412	14- 21	AW	GD		C
〃	572 316 0412	15- 11	AW	GD		C
〃	572 316 0412	16- 12	AW	GD		C
〃	572 316 0412	6- 31	AW	GD		C
〃	572 316 0412	8- 4	AW	GD		C
PCŌVP1587FCZ3	572 323 2289	19- 17	AR	EQ		D
〃	572 323 2289	20- 21	AR	EQ		D
〃	572 323 2289	2- 6	AR	EQ		D
PCŌVP1588FCZ1	572 323 2290	19- 4	AW	FG		D
〃	572 323 2290	20- 2	AW	FG		D
〃	572 323 2290	5- 29	AW	FG		D
〃	572 323 2290	7- 29	AW	FG		D
PGiDM1913FCZ1	572 345 3895	11- 58	AV	FG		C
PGiDM1915FCZ1	572 345 3680	12- 59	AZ	FQ		C
PGiDM1919FCZ6	572 345 3866	9- 66	BF	GN		C
PGiDM1920FCZ5	572 345 3867	9- 56	BF	GN		C
PGiDM1944FCZ1	572 345 3732	3- 13	BH	GX		C
PGUMS0294FCZ1	572 352 0348	5- 20	AR	EQ		C
〃	572 352 0348	7- 26	AR	EQ		C
【Q】						
QCNCM0877FCZZ	572 510 0842	24- 2	AF	DS		C
〃	572 510 0842	25- 2	AF	DS		C
QCNCM0923FC12	572 510 0939	24- 3	AE	DJ		C
〃	572 510 0939	25- 3	AE	DJ		C
QCNCM0923FC16	572 510 0868	24- 4	AF	DS		C
QCNCM0923FC16	572 510 0868	25- 4	AF	DS		C
QCNCM2401SC0B	595 510 0089	24- 5	AA	DD		C
〃	595 510 0089	25- 5	AA	DD		C
QCNCM2401SC0F	595 510 0782	24- 6	AB	DJ		C
QCNCM7014SC0B	595 510 0337	24- 7	AD	DJ		C
〃	595 510 0337	25- 6	AD	DJ		C
QCNCM7014SC0C	595 510 0338	24- 8	AA	DD		C
〃	595 510 0338	25- 7	AA	DD		C
QCNCM7014SC0F	595 510 0346	24- 9	AB	DD		C
QCNCM7014SC0i	595 510 0351	24- 10	AB	DD		C
〃	595 510 0351	25- 8	AB	DD		C
QCNCM7014SC1A	595 510 0692	25- 9	AC	DJ		C
QCNCM7014SC1B	595 510 0352	24- 12	AD	DJ		C
〃	595 510 0352	25- 10	AD	DJ		C
QCNCM7014SC1J	588 510 0153	24- 13	AC	DD		C
〃	588 510 0153	25- 11	AC	DD		C
【R】						
RCRM-0004FCZZ	572 616 0157	24- 14	AU	EZ		B
〃	572 616 0157	25- 12	AU	EZ		B
【S】						
SPAKC6433FCZZ	572 901 1916	20- 9	BG	GT	N	D
SPAKC6435FCZZ	572 901 1917	19- 11	BG	GT	N	D
SPAKC6436FCZZ	572 901 1918	19- 11	BG	GT	N	D
SSAKZ0020FCZZ	572 906 0125	19- 3	AF	DS		D
〃	572 906 0125	20- 11	AF	DS		D
【V】						
VCEAGA1VW476M	572 594 0091	24- 16	AB	DD		C
〃	572 594 0091	25- 14	AB	DD		C
VCKYCZ1CF473Z	521 593 0107	24- 17	AA	DD		C
〃	521 593 0107	25- 15	AA	DD		C
VCKYCZ1HB222K	521 593 0032	24- 18	AA	DD		C
〃	521 593 0032	25- 16	AA	DD		C
VCKYPA1HF223Z	572 593 0029	24- 19	AA	DD		C
〃	572 593 0029	25- 17	AA	DD		C
VHDDAN202K/-1	500 570 5005	24- 20	AB	DD		B
〃	500 570 5005	25- 18	AB	DD		B
VHDDAP202K/-1	500 570 0037	24- 21	AB	DD		B
〃	500 570 0037	25- 19	AB	DD		B
VHDDSM1D1//-1	572 570 0366	24- 34	AB	DJ		B
〃	572 570 0366	25- 34	AB	DJ		B
VHDDSS133//-1	500 570 5006	24- 33	AA	DD		B
〃	500 570 5006	25- 33	AA	DD		B
VHiTD62003AP1	595 573 1747	24- 23	AG	DX		B
〃	595 573 1747	25- 21	AG	DX		B
VRD-HT2EY121J	507 581 5011	25- 22	AA	DD		C
VRD-HT2EY242J	571 581 0369	24- 32	AA	DD		C
〃	571 581 0369	25- 32	AA	DD		C
VRD-HT2HY242J	572 580 0673	24- 31	AA	DD		C
〃	572 580 0673	25- 31	AA	DD		C
VRD-HT2HY302J	571 581 0420	24- 24	AA	DD		C
VRS-CZ1JD103J	521 581 0085	24- 25	AA	DD		C
〃	521 581 0085	25- 24	AA	DD		C
VRS-CZ1JD105J	521 581 0094	24- 26	AA	DD		C
〃	521 581 0094	25- 25	AA	DD		C
VRS-CZ1JD472J	521 581 0088	24- 27	AA	DD		C
〃	521 581 0088	25- 26	AA	DD		C
VS2SB1240-/-1	572 576 0451	24- 28	AD	DJ		B
〃	572 576 0451	25- 30	AD	DJ		B
VSDTC114YK/-1	507 576 5005	24- 30	AC	ZZ		B
〃	507 576 5005	25- 29	AC	ZZ		B
【X】						
XBPSD40P06K00	541 970 1038	6- 38	AA	DD		C
〃	541 970 1038	8- 64	AA	DD		C
XHBSE40P08000	572 970 0539	6- 39	AA	DD		C
〃	572 970 0539	8- 65	AA	DD		C
XRESP60-08000	541 399 5003	19- 23	AA	DD		C
〃	541 399 5003	20- 31	AA	DD		C
【0】						
0EUSAK0617P//	572 906 0126	19- 15	AB	DJ		D
0EUUNT27C013B	572 573 2535	24- 1	BB	GD		B
0EUUNT27C014G	572 684 4005	25- 1	BB	GD		B

CAUTION FOR BATTERY REPLACEMENT

(Danish) ADVARSEL !

Lithiumbatteri – Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri
af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandoren.

(English) Caution !

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type
recommended by the manufacturer.
Dispose of used batteries according to manufacturer's instructions.

(Finnish) VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan
tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden
mukaisesti.

(French) ATTENTION

Il y a danger d'explosion s' il y a remplacement incorrect
de la batterie. Remplacer uniquement avec une batterie du
même type ou d'un type équivalent recommandé par
le constructeur.
Mettre au rebut les batteries usagées conformément aux
instructions du fabricant.

(Swedish) VARNING

Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent
typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens
instruktion.

(German) Achtung

Explosionsgefahr bei Verwendung inkorrekter Batterien.
Als Ersatzbatterien dürfen nur Batterien vom gleichen Typ oder
vom Hersteller empfohlene Batterien verwendet werden.
Entsorgung der gebrauchten Batterien nur nach den vom
Hersteller angegebenen Anweisungen.

CAUTION FOR BATTERY DISPOSAL

(For USA,CANADA)

Contains lithium-ion battery. Must be disposed of properly.
Remove the battery from the product and contact
federal or state environmental
agencies for information on recycling and disposal options.

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